CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Nov. 20	Springfield, Mass.	Nov. 2
Nov. 20	Phillipsburg, Kan.	Nov. 9
Nov. 23	Auburn, Ind.	Nov. 9
Nov. 24	Memphis, Tenn.	Oct. 26
Nov. 24	Akron, O.	Nov. 16
Nov. 27	Norfolk, Va. Adv. Nov. 9 and 16.	Nov. 9
Nov. 27	Kings Mountain, N. C. Adv. Nov. 16.	Nov. 16
Nov. 29	San Juan, Porto Rico Adv. Oct. 12 to Nov. 16.	Oct. 19
Nov. 29	Bay St. Louis, Miss.	Nov. 2
Nov. 29	Phila., Pa.	Nov. 16
Dec. 1	San Juan, Porto Rico Adv. Oct. 19 to Nov. 16.	Oct. 19
Dec. 1	Cleveland, O.	Nov. 16
Dec. 1	Dillon, S. C.	Nov. 16
Dec. 12	Wheeling, W. Va. Adv. Nov. 16.	Nov. 16
Feb. 1	Spokane, Wash.	Nov. 16

SEWERS

Nov. 20	Phila., Pa.	Nov. 16
Nov. 22	Baltimore, Md.	Nov. 16
Nov. 22	Syracuse, Kan.	Nov. 16
Nov. 24	Akron, O.	Nov. 16
Dec. 7	Athol, Mass. Adv. Nov. 16.	Nov. 16
Dec. 11	New Orleans, La. Adv. Oct. 12 to Nov. 16.	Oct. 12

WASTE DISPOSAL

Dec. 15	Allentown, Pa.	Nov. 16

BRIDGES

Nov. 20	Los Angeles, Calif.	Nov. 9
Nov. 20	Pittsburgh, Pa.	Nov. 2
Nov. 22	Ashland, Md.	Nov. 16
Nov. 23	Virginia	Nov. 9
Nov. 28	Little Rock, Ark.	Nov. 9
Nov. 28	Minnesota	Nov. 16
Nov. 28	Cambridge, Mass.	Nov. 16
Nov. 29	Phila., Pa. Adv. Nov. 2 to 16.	Nov. 2
Nov. 29	Georgia	Nov. 16
Dec. 5	Cape May, N. J. Adv. Nov. 16.	Nov. 16
Dec. 5	Alabama	Nov. 16
Dec. 6	Freehold, N. J. Adv. Nov. 16.	Nov. 16
Dec. 8	Seattle, Wash. Adv. Nov. 16.	Nov. 16
Dec. 9	Yankton, S. D.	Nov. 9
Dec. 12	Brunswick, Ga.	Nov. 9
Dec. 12	Alabama	Nov. 16
Jan. 23	Spokane, Wash.	Sept. 21
Sept. 1, 1923	Sydney, New South Wales, Australia	Aug. 3

DAMS

Nov. 25	Bluefield, W. Va. Adv. Nov. 16.	Nov. 16

EXCAVATION, DRAINAGE, IRRIGATION

Nov. 27	Maricopa, Ariz.	Nov. 16

STREETS AND ROADS

Nov. 20	Goderich, Ont.	Oct. 19
Nov. 20	Utah	Nov. 16
Nov. 20	Winnsboro, S. C.	Nov. 16
Nov. 21	Pascagoula, Miss.	Oct. 26
Nov. 21	Newton, N. J. Adv. Nov. 2 to 16.	Nov. 2
Nov. 21	New York Adv. Nov. 9 and 16.	Nov. 9
Nov. 21	Edinburg, Tex.	Nov. 3
Nov. 21	Ft. Lauderdale, Fla.	Nov. 16
Nov. 22	Oklahoma	Nov. 16
Nov. 22	La Grange, Tex.	Nov. 16
Nov. 22	St. George, N. Y.	Nov. 16
Nov. 22	New York, N. Y.	Nov. 16
Nov. 23	Wilmington, N. C.	Nov. 2
Nov. 23	Sherman, Tex.	Nov. 16
Nov. 23	Sinton, Tex.	Nov. 16
Nov. 25	Richmond, Tex.	Nov. 16
Nov. 27	Washington, N. C.	Nov. 2
Nov. 27	Arma, Kan.	Nov. 16
Nov. 27	Girard, Kan.	Nov. 16
Nov. 28	Vermont Adv. Nov. 16.	Nov. 16

Bids Close		See Eng. News-Record
Nov. 28	Anamosa, Ia.	Nov. 16
Nov. 28	Louisiana	Nov. 16
Nov. 28	Minnesota	Nov. 16
Nov. 28	Union, S. C.	Nov. 16
Nov. 29	Oklahoma	Nov. 16
Nov. 29	Georgia	Nov. 16
Dec. 1	Newberry, S. C.	Nov. 16
Dec. 5	Albert Lea, Minn.	Nov. 9
Dec. 5	Alabama	Nov. 16
Dec. 12	Alabama	Nov. 16
Dec. 22	Spokane, Wash.	Nov. 2
Dec. 30	Quebec	Nov. 2
Dec. 30	Quebec	Nov. 9
Dec. 30	Quebec	Nov. 16
Jan. 7	Duluth, Minn.	Sept. 28

BUILDINGS

Nov. 17	Mineola, N. Y.	Nov. 16
Nov. 20	Birmingham, Ala.	Nov. 2
Nov. 20	Cleveland, O.	Nov. 2
Nov. 21	Owen Sound, Ont.	Nov. 2
Nov. 21	Detroit, Mich.	Nov. 2
Nov. 21	Williamsport, Pa.	Nov. 16
Nov. 22	Wash., D. C.	Nov. 2
Nov. 22	San Antonio, Tex.	Nov. 2
Nov. 22	San Antonio, Tex.	Nov. 16
Nov. 24	Yonkers, N. Y. Adv. Nov. 9 and 16.	Nov. 9
Nov. 25	Bowling Green, O.	Nov. 2
Nov. 30	Smiths Falls, Ont.	Nov. 16
Dec. 1	Oil City, Pa.	Oct. 26
Dec. 1	Abilene, Tex.	Nov. 9
Dec. 9	Port Washington, N. Y. Adv. Nov. 16.	Nov. 16
Dec. 14	Allentown, Pa.	Nov. 16
Dec. 18	Bakersfield, Calif.	Nov. 16
Jan. 2	Olean, N. Y.	Nov. 9
Mar. 23	Shreveport, La.	Nov. 9

INDUSTRIAL WORK

Dec. 9	Pittsburgh, Pa.	Nov. 16

FEDERAL GOVERNMENT WORK

Nov. 20	Horses and Props—Huntington, W. Va. Adv. Oct. 26 to Nov. 16.	Oct. 26
Nov. 20	Steel Hull—Pittsburgh, Pa. Adv. Oct. 26 to Nov. 16.	Oct. 26
Nov. 20	Roof—Toledo, O.	Oct. 26
Nov. 21	Roadway, Norfolk, Va.	Nov. 2
Nov. 22	Covering Railroad Tracks—San Diego, Calif.	Nov. 2
Nov. 23	Earthwork—St. Louis, Mo. Adv. Oct. 26 to Nov. 16.	Oct. 26
Nov. 23	Earthwork—St. Louis, Mo. Adv. Nov. 2 to 16.	Nov. 2
Nov. 24	Post Office—Chandler, Okla.	Oct. 26
Nov. 24	Roads—California	Nov. 16
Nov. 25	Dredging—Charleston, S. C. Adv. Oct. 26 to Nov. 16.	Oct. 26
Nov. 25	Barges—Pittsburgh, Pa. Adv. Nov. 2 to 16.	Nov. 2
Nov. 25	Lock and Dam—Jacksonville, Fla.	Nov. 2
Nov. 25	Hangar—Ft. Sam Houston, Tex.	Nov. 16
Nov. 27	Dredge Hull, etc.—Milwaukee, Wis. Adv. Nov. 2 to 16.	Nov. 2
Nov. 27	Dredging — Jacksonville, Fla. Adv. Nov. 2 to 16.	Nov. 2
Nov. 27	Remodeling—St. Louis, Mo.	Nov. 9
Nov. 28	Roads—California	Nov. 16
Dec. 1	Steel Hull—Pittsburgh, Pa. Adv. Nov. 9 and 16.	Nov. 9
Dec. 1	Barge—Montgomery, Ala. Adv. Oct. 26 to Nov. 16.	Oct. 26
Dec. 1	Dredging—Honolulu, H. T.	Nov. 2
Dec. 2	Boilers—Memphis, Tenn. Adv. Nov. 2 to 16.	Nov. 2
Dec. 2	Barges—Memphis, Tenn. Adv. Nov. 2 to 16.	Nov. 2
Dec. 2	Machinery — Memphis, Tenn. Adv. Nov. 2 to 16.	Nov. 2
Dec. 4	Extension, etc.—Altoona, Pa. Adv. Nov. 16.	Nov. 16
Dec. 4	Power Houses—Cape Henry, Va.	Nov. 9
Dec. 6	Repairs—Phila., Pa.	Nov. 16
Dec. 6	Pumping Units — Boise, Idaho	Oct. 19
Dec. 7	Dwellings—Huntington, W. Va.	Nov. 16
Dec. 11	Barges—Rock Island, Ill. Adv. Nov. 16.	Nov. 16
Dec. 12	Hospital—Knoxville, Ia. Adv. Nov. 16.	Nov. 16
Dec. 14	Garage, etc.—San Diego, Calif.	Nov. 16

Bids Close		See Eng. News-Record
Dec. 14	Barges—Vicksburg, Miss. Adv. Nov. 16.	Nov. 16
Dec. 15	Dredging—Detroit, Mich. Adv. Nov. 16.	Nov. 16
Jan. 3	Piers—Pearl Harbor, H. T.	Nov. 16

MISCELLANEOUS

Nov. 21	High School Equipment—Wash., D. C.	Oct. 12
Nov. 21	Lumber—Ocean City, N. Y.	Nov. 2
Nov. 21	Underpasses, etc. — North Carolina	Nov. 9
Nov. 21	Flume—New Smyrna, Fla. Adv. No. 9 and 16.	Nov. 16
Nov. 23	Lumber—New Orleans, La.	Nov. 16
Nov. 24	Shaft—Brooklyn, N. Y.	Nov. 2
Nov. 27	Electrical Work, Plumbing, Heating, etc. — Johnstown, Pa.	Nov. 2
Nov. 27	Dock—Newark, N. J. Adv. Nov. 16.	Nov. 16
Nov. 28	Railings and Stairs—Phila., Pa.	Nov. 16
Nov. 28	Retaining Walls—Phila., Pa.	Nov. 16
Dec. 5	Gate Valves, etc.—New York, N. Y. Adv. Nov. 16.	Nov. 16
Dec. 6	—Traveling Crane—San Francisco, Calif.	Nov. 16
Dec. 18	Coal Handling Plant — Melbourne, Victoria, Australia	Sept. 21
Jan. 1	Transmission Line—Spokane, Wash.	Nov. 9

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Warren—Plans water supply system, incl. piping, reservoir, pumping plant and wells. I. W. Moore, member of com.

N. J., Burlington—Plans extending mains $7,000, additional pumping units $7,000, and repairing wharf $6,000. G. A. Allison, Burlington, engr.

N. J., Maple Shade—Maple Shade Water Co. plans installing double action Duplex pumps, 60,000,000 gal., and 3 mi. 6 in. pipe. $50,000. Engineer not selected.

N. C., Elizabeth City—City voted $550,000 bond issue for waterworks, electric light and power plant. W. B. Goodwin, mayor.

O., Martins Ferry—Voted $400,000 bonds reconstructing waterworks and electric light plant. Noted Sept. 7.

O., St. Clairsville—Defeated $60,000 bonds Nov. 7, for reservoir. Noted Oct. 12.

Ill., Aurora—Drilling artesian well, 2,300 ft. deep, 12 in. at bottom, to S. B. Geiger, Old Colony Bldg., Chicago, $29,960.

Wis, Prairie du Chien—See "Excavation, Drainage, Irrigation."

Ia., Brooklyn—Making plans iron removal plant for waterworks. $10,000. H. A. Brown, Ottumwa, engr.

Ia., Oskaloosa — Making plans for dam across Skunk River. $30,000. H. A. Brown, Ottumwa, engr. Noted June 15.

Minn., Westbrook—Making plans 10,000 lin.ft. 4 in. c.i. pipe, 450 ft. well, pumping machinery. $15,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engr.

Kan., Republic—Voted $30,000 bonds to install waterworks system. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs.

Kan., Rexford — Making preliminary survey for new plant and distribution system Bond election soon. C. A. Haskins, 517 Finance Bldg., Kansas City, Mo., engrs.

Mo., St. Louis—Plans to purchase coated c.i. pipe, special castings, valves, fire hydrants, valve boxes, and other materials, $100,000. E. E. Wall, City Hall, water comr.

Mo., Valley Park—R. P. Sargent, mayor, takes bids about Dec. 1, for equipment and distribution pipes, incl. 1,100 cu.yd. earth

Waterworks (Continued)

excav., 21,120 ft. 4-8 in. c.i. pipe, etc. $52,500. L. A. Day, 34 East Grand St., St. Louis, engr.

Tex., Elgin—Nov. 28, to vote on $40,000 bond issue for waterworks improvements. Address Mayor.

Okla., Cement—Nov. 21, to vote on $33,300 bonds for water and light extensions. W. H. White, clk. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, consult. engrs. Noted Nov. 2.

Okla., Wetumka—Having plans prepared waterworks, light and sewerage systems. $150,000. C. N. Hamilton, clk. V. V. Long & Co., 1300 Colcord Bldg, Oklahoma City, consult. engrs.

Idaho—Lewiston—Making plans filtration plant to purify water from Clearwater River, 6,000,000 gal. per day, new reservoir, pumps and mains to be enlarged. $350,000. E. G. Wagner, supt. waterworks. Noted Oct. 19.

Wash., Bellingham—Election in December to vote on $1,000,000 bonds to change city's water supply from Lake Whatcom to Skookum Creek, 17 mi. from Lake Padden, the proposed reservoir.

Wash., Tacoma — W. A. Kunigk, supt. Water Dept., 402 City Hall, rejected bids opened Nov. 3, furnishing and delivering nineteen 6 in. standard pressure-hub-end gate valves and six 20 in. standard pressure hub-end gate valves with by-pass. Will readvertise. I. S. Davisson, comr. light and water.

Wash., Tacoma—Plans 75,000 hp. development, reservoir to store 190,000 acre-ft., power plant, dam, transmission line, etc. $7,768,000.

Calif., San Francisco—City and San Francisco Co., had plans prepared constructing pipe section of Hetch Hetchy Aqueduct between Irvington and Crystal Springs, 19 mi. long, 60 in. in dia., riveted or welded steel, and 2,050 ft. submerged pipe at Dumbarton Crossing, pumping plant to pump water to Crystal Springs Reservoir. $5,000,000. N. A. Eckart, asst. engr. M. M. O'Shaughnessy, city engr.

N. S., Sydney—Voted $25,000 bonds for waterworks. J. J. Curry, city treas.

Ont. Hanover—Voted $135,000 bonds for extension to waterworks system, incl. reservoir, 3 mi. pipe line to Rhul Lake, etc. F. W. Thorold, 54 Admiral Rd., Toronto, engr. Noted Oct. 12.

Ont., Rodney—Plans standpipe, pump and watermains. Prices wanted. Bylaw for $25,000 will probably be voted on in January. J. A. McRae, clk.

BIDS DESIRED

Pa., Phila.—Nov. 29, by F. H. Caven, dir. pub. wks. Water piping, air piping and air lifts in Northeast sewer treatment plant, incl. 696 ft. 12 in. 6,180 ft. 6 in., 23,000 ft. 3 in. c.i. pipe, 18,000 ft. 3 in. w.i. pipe, $50,000. C. A. Allen, City Hall, engr.

W. Va., Wheeling—Dec. 12 for pumping engines and boilers. J. N. Chester Engineers, Pittsburgh, Pa.; adv. this issue.

N. C., Kings Mountain—Nov. 27 improving water works and sewerage system incl. reservoir, small pumping station, 2 mi. mains, sewage sedimentation tank, 2 mi. sewers, etc. The Ludlow Engineers, Winston-Salem; adv. this issue.

S. C., Dillon—Dec. 1, by Town Council, 250,000 gal. rein.-con. reservoir, extending water and sewer lines, installing pumping machinery, which will be furnished by city. $50,000. Ryan Eng. Co., Arcade Bldg., Columbia, engrs.

O., Akron—Nov. 24, by S. Porter, clk. Summit Co., 3 mi. 6, 8 and 12 in. c.i. mains with 80 service connections. $35,000. E. D. Barstow, 226 Ohio Bldg., engr. Noted Nov. 2.

O., Cleveland—Dec. 1, at office of Commissioner of Purchases and Supplies, City Hall, furnishing and laying about 2,700 ton 36 and 48 in. c.i. pipe, and other miscellaneous work for Div. of Water. Contr. 17. A. V. Ruggles, comr. of Water.

Kan., Herrington—Nov. 17, to vote on $270,000 bond issue for waterworks improvements incl. 570,000,000 gal. earth dam. Black & Veach, 701 Mutual Bank Bldg., Kansas City, Mo., engrs.

Mo., La Plata—Nov. 21 to vote on $190,000 bonds for new water and sewerage systems and sewage disposal plant. Black & Veatch, 701 Mutual Bank Bldg., Kansas City, engrs.

Wash., Spokane—Feb. 1, by North Spokane Irrigation Dist. and O. Weile, engr., 314 Peyton Bldg., 100,000 gal. standpipe and steel tank, 60 ft. tower and 5-6 mi. 4-12 in. c.i. pipe. $75,000 bonds voted. Noted Sept. 21.

BIDS RECEIVED

Mich., Detroit—Furnishing and installing 289,000 bronze strainer caps for strainer system of filtration plant at pumping station, from Michigan Valve & Fdry. Co., 3631 Parkinson St., $30,400, Detroit Lubricator Co., 5958 Trumbull Ave., $31,357, Simplex Valve & Meter Co., 5722 Race St., Phila., Pa. $31,700.

CONTRACTS AWARDED

N. J., Jersey City—Bd. City Comrs. about 5,000 lin.ft. 36 in. c.i. mains in various streets, to J. L. Sigretto, Bernardsville, $141,636. Engrs. est $132,000. Noted Oct. 26.

N. C., High Point—See "Sewers."

Fla., Auburndale—Installing waterworks, 50,000 gal. tank, tower 75 ft. high, 6,000 ft. 6 in. and 2,500 ft. 8 in. mains, to J. B. McCrary Eng. Co., 3rd Natl. Bank Bldg., Atlanta, Ga., $21,629. Noted May 18.

O., Warren—Director Pub. Serv. 6 in. c.i. mains in Peerless, Choctaw, Pawnee, Viola, Quinby and Front Sts., to H. J. Poff, Warren; Watson, Atkins and Frances Aves., South Main and Kinsman Sts., to Smith Eng. Co., Warren; Idylwid, West and Delaware Aves., Arlington, Griswold and West Oak Sts., to Garner Bros., Warren; South Park and South Homewood Aves., to F. R. Cavanaugh, Warren; Edgewood Ave., River, East Atlantic, Albert and McKinley Sts., to Turner Contg. Co., Park Theatre Bldg., Youngstown. Total cost $33,884. Noted Oct. 19.

Mich., Ecorse—M. L. Brown & Son, engrs., 407 Capitol Bldg., Detroit, 2,200 ft. 6 in. c.i. water mains, etc., to G. R. Cooke, 1260 Penobscot Bldg., Detroit, $16,000.

Mo., Valley Park—For 1 concrete pump pit 14 x 12 x 21 ft. deep and 3 reservoirs each 8 x 22 x 50 ft. deep, to Fraser-Davis Constr. Co., Arcade Bldg., St. Louis, $7,500.

Tex., Dallas—For 1,000,000 gal. reservoir Sunset Heights, steel tank, concrete foundation, to Chicago Bridge & Iron Wks., Praetorian Bldg., $22,700 plus $2,690 for foundation. Engrs. est. $30,000.

Tex., Lubbock—See "Sewers."

Okla., Tulsa — Water Comn., valves for Spavinaw project, to Chapman Valve and Mfg. Co., 2-20 North Cheyenne St., $7,574. Noted Oct. 12.

Wash., Tacoma—W. A. Kunigk, supt. Water Dept., 402 City Hall, furnishing and delivering 9,744 lin.ft. 20 in. and 1,560 lin.ft. 6 in. Class B. c.i. pipe and 53 miscellaneous standard specials, to R. C. Polk, 433 Perkins Bldg., $46,119.

Sewers

PROPOSED WORK

Mass., Springfield—Having plans prepared reconstructing sewers in Washburn, Lowell and Newland Sts. $40,000. Metcalf & Eddy, 14 Beacon St., Boston, engrs.

N. J., Trenton—Making plans sewage disposal plant. $1,250,000. G. A Johnson Co., 150 Nassau St., New York City, engrs.

N. C., Elizabeth City—City voted $250,000 bond issue for sewerage system. W. B. Goodwin, mayor.

O., Westerville—Voted $50,000 bonds for laterals and sewage disposal plant. Jennings-Lawrence Co., Hartman Bldg., and E. G. Bradbury, 416½ South High St., both of Columbus, engrs.

Ill., Amboy—Bd. Local Impvts. soon receives bids for treatment plant and outlet for sewage system. F. W. Leake, city engr.

Ia., Grinnell—Making plans sewage disposal plant. $25,000. L. Higgins, Security Bldg., Des Moines, engr.

Kan., Oakley—Having plans prepared new sewerage system and disposal plant. $50,000. C. A. Haskins, 517 Finance Bldg., Kansas City, Mo., engr.

Kan., Pittsburg — Nov. 17, to vote on $125,000 bond issue, sewage disposal plant. Black & Veatch, 701 Mutual Bank Bldg., Kansas City, Mo., engrs.

Kan., Topeka—Having preliminary plans prepared storm and sanitary sewers. C. A. Haskins, 517 Finance Bldg., Kansas City, Mo., engr.

Mo., La Plata—See "Waterworks."

Okla., Stroud—Nov. 21, to vote on $140,000 bonds for sewers and disposal plant. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Okla., Wetumka—See "Waterworks."

Que., Montreal—Plans 158 ft. 12 in. tile sewer in Nelson St. $745, 3,563 ft. 2 x 3 brick sewer in Eadie St. $27,670. E. Fusie, supt. sewer dept.

Ont., Hamilton—Preparing plans intercepting sewerage system. E. R. Gray, city engr. $25,000.

Ont., London—Preparing plans sanitary sewers. $250,000. H. A. Brazier, city engr. Prices wanted on materials.

Ont., Oldcastle—Sandwich South Twp. plans 60,000 ft. tile drains, 4 in. up $75,000. J. McAuliffe, clk.

N. S., Sydney—Voted $25,000 bonds for sewers. J. J. Curry, city treas.

Sask., Saskatoon—Dec. 11, to vote on $77,650 bonds for sewers.

BIDS DESIRED

Mass., Athol—Dec. 7, by Sewer Comrs. at office of Selectmen, sewerage extensions. B. T. Hale, clk.; adv. this issue.

Pa., Phila.—Nov. 20, by F. H. Caven, dir. pub. wks., 17,672 ft. 2 ft. 3 in. x 1 ft. 6 in. brick sewer in Walker St. from Benner to Devereaux Sts. Watts St. from Mifflin St. to dead end, York Rd. from 18th St. to Godfrey Ave., $35,000; 8,672 ft. 2 x 3 ft. brick sewer in 65th Ave. from Limekiln Pike to Ogontz Ave., 67th Ave. from Broad to 15th Sts., Torresdale Ave. from Warrell to Salem Sts., $30,000; 17,526 ft. 3 ft. brick sewer in 54th St. from Warrington to Springfield Aves., Haines St. from Ogontz Ave. to Limekiln Pike, Haines St. from Chew to Ardleigh Sts., Haines from Anderson to Ardleigh Sts., $32,000; 2 ft. 3 in. x 1 ft. 6 in. brick sewer in Jackson St. from Knoor to Longshore Sts., Kingston St. from F to G Sts., Lippincott St. from 16th to Chadwick Sts., $25,000; 17,002 ft. 2 ft. 3 in. x 1 ft. 6 in. brick sewer in London St. from A to Ella Sts., Marshall St. from Bristol to Cayuga Sts., McCallum St. from Hortter St. to Lincoln Ave., $35,000; 12,000 ft. 2 ft. 6 in. x 1 ft. 8 in brick sewer in McKean St. from Swanson St. to Delaware Ave., Ogontz Ave. from Haines St. to Pittsville Ave., Sansom St. from 49th to 50th Sts., $25,000; 12,182 ft. 3 ft. 3 in. x 2 ft. 2 in. brick sewers in Erie Ave. from B to Front Sts., Farson St. from Viola St. to Leidy Ave., 54th St. from Lebanon Ave. to Berks St.; vitr. pipe and brick sewers in Arnold St. from Midvale Ave. to dead end, Atlantic St., from Kensington Ave. to K St., Ellett St. from McCallum to Green Sts., $25,000; 19,000 ft. 10 in. vitr. pipe sewer in Abbottsford Ave. from Wissahickon Ave. to McKean St., America St. from Luzerne St. to Rising Sun Ave., $30,000; 500 ft. 4 ft. 6 in. x 6 in. twin sect., 400 ft. 4 ft. 6 in. x 6 in. single sect., 200 ft. 6 ft. 6 in. x 7 ft. 6 in. single sect., rein.-con., intercepting sewer through lowlands of 40th Ward, $100,000. J. A. Vogelson, City Hall, engr.

Md., Baltimore—Nov. 22, by W. F. Broening, pres. Bd. Awards, City Hall, hauling and placing 5,100 ft. 24-54 in rein.-con. pipe, 1,340 ft. 15-24 in. vitr. clay pipe, 8,700 ft. 5-15 in. sewer and house connections, 1,480 ft. 46 in. circular and 51 x 90 in. rectangular concrete section drain, 60 manholes, etc., Sewer Dist. G 14. A. E. Christhilf, City Hall, engr.

N. C., Kings Mountain—See "Waterworks."

S. C., Dillon—See "Waterworks."

O., Akron—Nov. 24, by S. Porter, clk. Summit Co. 2 mi. 8 and 10 in. vitr. sewers with branches for house connections, etc., in County Sanitary Dist. 13, Tallmadge Twp. $30,000. E. D. Barstow, 226 Ohio Bldg., engr. Noted Nov. 2.

Kan., Syracuse—Nov. 22, 40,000 ft. 8, 10 and 12 in. tile sanitary sewer. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs. Noted Nov. 9.

BIDS RECEIVED

O., Cleveland—Opened bids Nov. 2, sewer in (1) Cedar Ave. from East 22nd to East 30th Sts. (2) Cedar Ave. from East 30th to East 40th Sts. (3) Fairmount Rd., from Manson Co., 343 The Arcade, (1) $20,594 (2) $39,056; Amato Constr. Co., 343 The Arcade, (1) $20,813 (2) $37,536; A. Marra, Ulmer Bldg., (3) $21,459; Gallagher-Burke Constr. Co., 1339 Irene Ave., Lakewood, (3) $28,151. Work involves 5,780 ft., brick and 2,170 ft. 15-24 in. vitr. clay pipe.

Calif., Madera—Constructing sewage disposal plant, from L. R. Adell, Madera, $32,292; A. A. Tieslau, 2819 Grove St., Berkeley, $35,240; Fisher & Gendrum, Madera, $35,600. Noted Oct. 19.

Calif., Santa Ana—Cities of Santa Ana, Orange, Anaheim and Fullerton, constructing outfall sewer line to ocean, 22,000 lin. ft. 42 in pipe and 18 manholes, from J. Chuttuck, Bullard Blk., Los Angeles, segmental vitr. $138,852; Shepard & Webber, Santa Monica, concrete pipe, $130,565. Noted April 27, under "Anaheim."

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Depot Rd., 88th and Barclay Sts., to Kennedy & Smith, 93 Amity St., Flushing.

Sewers (Continued)

$2,515, $16,987 and $2,885 respectively; Orontes Ave., to G. Ingressia, Corona, $2,476; 106th St., to Spinellas & Muccini, 6102 18th Ave., Brooklyn, $2,452. Noted Nov. 9.

N. C., High Point—Laying 35,000 ft. sewer lines and 20,000 ft. water mains, to H. D. Perry, Bessemer, $34,000.

O., Cleveland—Cuyahoga Co. sewers in Short, Crossview and Chestnut Rds., to Ohio Contg. Co., Elyria, $95,913; Brookpark Rd. 4, to Enterprise Paving & Constr. Co., 8444 Bway., $58,441. Noted Nov. 9.

Mo., Maplewood—For 28,318 ft. 8-36 in. vitr. clay and 1,800 ft. 42 in. segmental block sewers, etc., to A. Lewald, 5909 Ethel Ave., St. Louis, $169,689. Noted Nov. 2.

Tex., Lubbock—For 1,500,000 gal. (daily) Imhoff sprinkling filter, disposal plant, 20 mi. 6-10 in. vitr. sewer and 10 mi. 6-8 in. c.i. watermains, to James Constr. Co., Southwestern Life Bldg., Dallas, $230,000. Noted Oct. 26.

Tex., Iowa Park—Will build sanitary sewerage system and disposal plant, by day labor. $50,000. Montgomery & Ward, Wichita Falls, engrs.

Okla., Tulsa—Bd. Comrs., sewer tunnel, 5,700 ft. long, 14½ x 15½, rein.-con., to Tibbets & Pleasant, 229 North Nogales St., $637,300. Noted Oct. 12.

Utah, Salt Lake City—Sewers in Farmers Ward, 30,000 ft. 8-36 in. sanitary sewers, 18 flush tanks, to Griffith & Burnside, Kearns Bldg., $126,674. Noted Nov. 9.

Que., Montreal—To Frascarelli & Co., 654 Berri St., 1,560 yd. 12 in. tile and 324 yd. 2 x 3 brick sewer in Sherbrooke St. $21,805; to Rondou, Corlier & Co., 3506 Christoph Colomb St., 98 yd. 2 x 3 brick in Bellechasse St. $1,371; and 242 yd. 2 x 3 brick sewer in Cote des Neiges Rd. $4,377; will also build 580 ft. 2 x 3 brick sewer in Hall St. $2,823, and 434 ft. 12 in. tile sewer in Park Marguerite Bourgeois St., $1,165, by day labor.

Waste Disposal

BIDS DESIRED

Pa., Allentown—Dec. 15 for complete garbage incinerator plant. $100,000. Engineer not announced.

Bridges

PROPOSED WORK

Mass., Springfield—Plans iron bridge over Boston & Albany R.R. tracks, Berkshire Ave. $130,000.

Mass., Woronco—Town of Russell receiving sketches concrete bridge across Westfield River, here. $75,000.

New Jersey—State voted $10,000,000 bonds for bridges.

O., Cleveland—City and New York Central R.R., West 3rd St. and St. Clair Ave., plans new bridge over East 152nd St. $100,000. J. Cook, City Hall, engr.

Wisconsin—State Hy. Comn. has ordered construction of bridges in Div. 1, incl. Sauk, Dane and Columbia Counties, $23,150, A. L. Hambrecht, Madison, div. engr.; Div. 3, Shawano, Winnebago, Outagamie, Oconto, Marinette, Manitowoc, Kewaunee, Door and Calumet Counties, $31,300, O. C. Rollman, Nicolet Bldg., Green Bay, div. engr.; Div. 4, Wood and Waupaca Counties, $3,600, F. F. Mengel, Wisconsin Rapids, div. engr.; Div. 5, Jackson and Vernon Counties, $21,200, T. M. Reynolds, La Crosse div. engr.; Div. 6, Clark, Pepin, Taylor, St. Croix and Pierce Counties, $19,200, H. W. Vroman, Eau Claire, div. engr.; Div. 7, Oneida, Price and Iron Counties, $21,555, F. M. Sergeant, Rhinelander, div. engr.; Div. 8, Washburn, Bayfield and Polk Counties, $3,450, J. R. McLean, Superior, div. engr.

Ia., Des Moines—Making plans widening 6th Ave. bridge, 500 ft. long, over Des Moines River, by taking up sidewalks on both sides of roadway and building cantilevered beams to carry new sidewalks outside of present arch ring. $50,000. K. C. Kastberg, city engr.

Kan., Columbus—Cherokee Co. making plans 2 bridges on Spring Valley Rd., Federal Aid Project 142, one to have 18 ft. rein.-con. slab span and 130 ft. rein.-con. arch span, other 80 ft. rein.-con. arch span, both 20 ft. roadway. L. Noftzger, Columbus, engr.

Missouri—B. H. Piepmeier, state highway engr., Jefferson City, will receive bids Dec. 4, 3,200 ft. steel bridge, 20 ft. roadway, in city of Lexington, Lafayette and Ray Counties, owners. $900,000. Waddell & Son, 800 Graphic Arts Bldg., Kansas City, engrs. Noted Oct. 26.

Missouri—State Hy. Dept., Jefferson City, plans one 80 ft. steel truss span, two 20 ft. rein.-con. slab approach spans, etc., 60 ft. steel truss span, one 20 ft. rein.-con. slab approach span, etc., and one 50 ft. steel trus span, one 20 ft. road rein.-con slab approach span, all 20 ft. roadway, on road north of Chillicothe, State Project Route 3, sect. 16, Livingston Co.; one 25 ft. rein.-con. deck girder and three 50 ft. steel truss spans, 20 ft. roadways, etc., on road from St. Louis to Kansas City, State Project Route 2, Sect. 6, Jackson Co.; one 25 ft. rein.-con. deck girder span, 20 ft. roadway, over Meeks Branch, on Sta. 736 plus 40 on road from Neosho to Arkansas State Line, State Project Route 1, Sect. 106, Newton Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans three 30 ft. concrete deck girder and one 60 ft. steel truss spans, all 18 ft. roadways, on road north and south through Stoddard Co., Federal Aid Project 197 A; one 60 ft., one 50 ft. and two 70 ft. steel truss spans with rein.-con. slab approach spans at each end, over branch of Bee Creek, on road from Fancette to New Market, State Project Route 1, Sect. 34, Buchanan Co.; one 100 ft., two 50 ft. and one 60 ft. steel truss and thirteen 20 ft. rein.-con. slab spans, 20 ft. roadways, etc., on road from Stanberry to Albany, State Project Route 4, Sect. 18, Gentry Co.; one 35 ft., one 45 ft. and one 40 ft. I Beam spans over D. D. 44, 42 and 41 respectively, also one 55 ft. and one 140 ft. steel truss spans latter having one 20 ft. I-Beam approach span each end, 2 rein.-con. piers, etc., on road from Malden to Risco, State Project Route 82, Sect. 3, New Madrid Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans two 50 ft. I-beam, four 60 ft. and two 70 ft. steel truss spans with rein.-con. pile bents, on road from Charleston to Wolf Island, Federal Aid Project 198 B, Mississippi Co.; one 80 ft. steel truss and two 20 ft. rein.-con. slab spans, 20 ft. roadway, 2 rein.-con. piers, 2 rein.-con. bents, over Dry Fork of Merramec River on Sta. 350 plus 00, road from Salem to Licking, State Project Route 32, Sect. 4, Dent Co.; one 40 ft. steel I-Beam, two 150 ft. and one 80 ft. steel truss spans, 18 ft. roadway 3 rein.-con. piers and 2 rein.-con. bents, over Big. north fork of White River, on Sta. 1544 plus 00, road from West Plains to Arkansas, Federal Aid Project 111 C, Ozark Co.; two 160 ft. and two 80 ft. steel truss spans, 20 ft. roadway, 3 rein.-con. piers, 2 rein.-con. bents over Gasconade River, on Sta. 840 plus 00 also five 20 ft. rein.-con. slab spans, 20 ft. roadway, 6 rein.-con. pile bents, over overflow Gasconade River, on Sta. 843 plus 00 on road from Springfield to St. Louis, near Lebanon, State Project Route 14, Sect. 38, Laclede Co.; four 40 ft. reinforced deck girder, two 160 ft. and one 80 ft. steel truss spans, 20 ft. roadway, 3 rein.-con. piers, 5 rein.-con. bents, over Big Piney River near Waynesville on Sta. 426 plus 00, road from Springfield to St. Louis, State Project Route 14, Sect. 45, Pulaski Co.; one 80 ft. and two 50 ft. steel truss spans, 20 ft. roadway, 2 rein.-con. piers, 2 rein.-con. bents, over Dardenne Creek, on Sta. 973 plus 26, road from St. Louis to Kansas City, State Project Route 2, Sect. 71, St. Charles Co.; one 14 ft. rein.-con. slab span, 2 rein.-con. abutments, 20 ft. roadway, on Sta. 944 plus 64, road from St. Louis to Kansas City, State Project Route 2, Sect. 71, St. Charles Co.; one 60 ft. steel truss span, 18 ft. roadway, 1 concrete pier, 1 rein.-con. abutment, over Wild Cat Creek, on Sta. 22 plus 01.3, road from Princeton to Trenton, State Project Route 3, Sect. 6, Mercer Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans 70 ft. concrete arch span, 20 ft. roadway, over Linn Creek on Sta. 399 plus 95 on road from Kansas City to Parksville, State Project Route 59, Sect. 6, Platte Co.; ten 20 ft. I-Beam spans, 20 ft. roadway, etc., over overflow channel of Crooked River, on Sta. 364 plus 95 on road from Richmond to Carrollton, State Project Route 10, Sect. 13, Ray Co.; 120 ft. steel truss span, 2 rein.-con. piers, etc., 20 ft. roadway, over Big Creek, on Sta. 25 plus 00 on road from Bethany to Albany, State Project Route 4, Sect. 24, Harrison Co.; 40 ft. I-Beam span, 20 ft. roadway, over Maple Slough D. D., on Sta. 647 plus 80 on road from Charleston to New Madrid, State Project Route 55 A, Sect. 2, Mississippi Co.; 12 ft. rein.-con. slab span, 30 ft. roadway, on Sta 191 plus 24, on road from Milan to Green City, State Project Route 6, Sect. 33, Sullivan Co. B. H. Piepmeier, state highway engr.

Tex., Queen City—Bowie Co. (Boston) and Cass Co. (Linden) making plans 1.5 mi. steel span and timber pile trestle over Sulphur River at Paces Crossing, between here and Texarkana, one 150 ft. steel span, gravel surfaced approaches. $100,000. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs. A. P. Noyes, Mayd. resident engr.

Ore., Portland—Multnomah Co. voted $3,000,000 bonds for Burnside St. bridge and $1,600,000 for Beacon St. bridge, both crossing Willamette River. W. A. Eatchel, Court House, engr. in charge. Additional engineering service to be employed.

Calif., Sacramento—Bd. Supervs. Sacramento Co. rejected bids opened Oct. 16, constructing Paintersville Slough Bridge and Steamboat Slough Bridge. Plans will be revised and new bids asked. C. W. Deterding, co. surv. Noted Oct. 26.

BIDS DESIRED

Mass., Cambridge—Nov. 28, by L. M. Hastings, city engr., Cambridge, 51½ ft.

BRIDGE—TRENTON, N. J.

Following are Engineer's Estimate and lowest three bids opened Oct. 31, by Comrs. Mercer Co., for constructing viaduct over Delaware and Raritan Canal, (A) Engineer's Estimate; (B) L. J. Sieling, Broad St., Phila., (awarded contract); (B) Carl R. Camp; (C) Brann & Stuart. The unit bids were as follows:

	A	B	C	D
Removal of superstructure and draw protection (lump sum)	$5,000 00	$6,000 00	$4,350 00	$4,576 00
450 cu.yd. masonry and concrete removed	5 00	10 00	4 00	4 58
Maintenance of bridge traffic (lump sum)	4,000 00	2,000 00	4,650 00	5,610 00
1,000 cu.yd. excavation for piers and pedestals	7 00	12 00	7 00	8 57
1,000 cu.yd. excavation for retaining wall	2 00	6 00	4 50	3 00
500 cu.yd. class "A" concrete in bases	15 00	20 00	13 30	9 42
600 cu.yd. class "B" concrete in pier shafts	20 00	22 00	18 00	14 60
300 cu.yd. class "B" concrete in retaining wall	20 00	25 00	17 00	14 53
1,100 lin.ft. timber piles below retaining wall	1 00	1 00	1 17	1 10
300 lin.ft. pile cut offs	30	25	27	58
1,200,000 lb. structural metal	05½	055	067	06½
170 cu.yd. class "B" concrete in counterweight	25 00	25 00	20 00	19 30
36,000 lb. tower-sheaves, shafts and bearings	18	15	19	24
12,000 lb. wire ropes and sockets	25	25	295	292
28,000 lb. equalizers and machinery	30	25	31	3775
Operators house (lump sum)	2,000 00	1,000 00	1,450 00	2,165 00
300 lin.ft. sewer line	1 00	3 00	1 36	2 30
Electrical equipment, lift span (lump sum)	7,000 00	6,100 00	6,700 00	7,870 00
12 lamp posts	60 00	40 00	61 50	73 50
Roadway lighting system (lump sum)	800 00	650 00	715 00	945 00
4 concrete pylons	50 00	25 00	36 00	69 00
Patent plate and name plates (lump sum)	200 00	100 00	287 00	150 00
1,100 lin.ft. concrete handrails	4 00	3 00	3 65	4 50
500 cu.yd. class "B" concrete in slab, etc.	25 00	20 00	21 20	18 40
110,000 lb. reinforcing steel	05	06	0584	05
1,400 sq.yd. asphalt block paving	3 50	3 00	4 25	3 00
1,500 sq.yd. granite block paving	6 00	4 00	5 25	6 00
14,500 sq.ft. waterproofing	18	12	188	18
5,000 lb. inlet drops and manhole covers	07	15	114	07
120 lin.ft. cast iron drain pipe	1 00	8 00	98	1 00
6 concrete gutter under drain pipes	15 00	8 00	18 30	12 00
21,000 sq.ft. gunite encasement	55	40	515	50
500 cu.yd. embankment on approaches	2 00	1 50	1 57	1 32
250 cu.yd. paving base on approaches	12 00	9 00	12 35	12 40
800 lin.ft. curbs on approaches	1 00	1 00	1 00	1 36
8,000 sq.ft. sidewalk slabs on approaches	30	25	235	17
1,000 sq.ft. raising old sidewalk	10	05	13	06
1,300 cu.yd. embankment for canal bank	2 00	2 00	1 34	58
200 cu.yd. rip-rap on South Bank of Canal	7 00	3 00	6 10	21
Removal of debris (lump sum)	300 00	500 00	300 00	2,105 00
Extended totals	$211,910	$208,903	$218,667	$218,874

Bridges (Continued)

single leaf movable draw span, 54 ft. wide, with 2 main plate girders, overhead counterweight, etc., for 1st St. Bridge over Broad Canal.

N. J., Cape May—Dec. 5, by Bd. Freeholders Cape May Co., bridge across Grassey Sound Channel, incl. Strauss bascule draw span, etc. on line of North Wildwood to Burleigh Rd. in Middle Twp. R. F. Smith, Marmora, co. engr.; adv. this issue.

N. J., Freehold—Dec. 6, by Bd. Freeholders Monmouth Co., Court House, reconstructing Grand Ave. bridge N-14, over Sunset Lake, consisting of three 40 ft. spans, 30 ft. roadway. G. K. Allen, 60 Broad St., Red Bank, co. engr.; adv. this issue.

Md., Ashland—Nov. 22, by W. F. Broening, pres. Bd. of Awards, City Hall, Baltimore, steel truss bridge, 90 ft. span, concrete abutments and approaches, 6,700 cu. yd. excav., here. W. A. Megraw, City Hall, engr.

Georgia—Nov. 29, by State Hy. Dept., Atlanta, 104 ft. concrete bridge on Washington-Lexington Rd., Federal Aid Project 293, Wilkes Co., two 288 ft. rein.-con. bridges on Hawkinsville Abbeville Rd., Federal Aid Project 299, Pulaski Co.; 156 ft. concrete bridge on Washington-Lincolnton Rd., Federal Aid Project 315, Wilkes Co.; 156 ft. concrete bridge on Washington Elberton Rd., Federal Contract 314, Wilkes Co. W. R. Neel, Atlanta, highway engr.

Fla., Ft. Lauderdale—See "Streets and Roads."

Alabama—Dec. 5, by W. S. Keller, state highway engr., Montgomery, constructing 1,017 ft. concrete bridges, girder type, on Birmingham-Montgomery Highway, 18 ft. surface, Shelby Co., 2,980 cu.yd. concrete, 389,767 lb. reinforcing, 1,190 cu.yd. dry, 483 cu.yd. wet and 271 cu.yd. solid rock excav., etc. Noted Oct. 5.

Alabama—Dec. 12, by W. S. Keller, state highway engr., Montgomery, 566 ft. bridges on Opelika-Dadeville Rd., 18 ft. roadway, Lee Co., one 80 ft. steel span, remainder concrete girders, 959 cu.yd. concrete, 149,470 lb. reinforcing, 480 lin.ft. concrete piles, 168 cu.yd. dry, 296 cu.yd. wet and 100 cu.yd. rock excav., 178 sq.yd. 4 in. concrete surfacing, etc.

Utah—See "Streets and Roads."

Wash., Seattle—Dec. 8, by Bd. Pub. Wks., superstructure, etc. of steel bascule bridge and two sidespans over West Waterway on West Spokane St. C. B. Bagley, secy.; adv. this issue. Noted Sept. 7.

BIDS RECEIVED

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, opened bids Oct. 31 for following bridges, (1) four 40 ft. concrete spans on Route 2, Sect. 52-B, De Witt Co., (2) superstructure 100 ft. steel span, Route 2, Sect. 52-C, De Witt Co. (3) four 40 ft. concrete spans and one 100 ft. steel span, Route 2, Combination O, De Witt Co. (4) 6 concrete bridges, eight 30 ft. spans, Route 3, Sect. 9-B, Rock Island Co. (5) 1 rein.-con., six 50 ft. concrete spans and 1 combination bridge, thirteen 50 ft. concrete spans and one 100 ft. steel (substructure only) Route 12, Sect. 24-B, Clinton Co. (6) one 100 ft. steel superstructure Route 12, Sect. 24-C, Clinton Co. (7) 1 rein.-con. six 50 ft. concrete spans, 1 combination, thirteen 50 ft. concrete spans, one 100 ft. steel span Route 12, Combination P, Clinton Co. (8) 2 concrete, six 40 ft. spans Route 16, Sect. 13-B, Shelby Co. (9) 1 steel bridge, one 160 ft. span, substructure, Project 25, Sect. 6-B, Grundy Co. (10) 1 steel, one 160 ft. span, superstructure Project 25, Sect. 6-C, Grundy Co. (11) 1 steel, one 160 ft. span, Project 25, Combination R, Grundy Co., from F. Zimmerly, Paris. (1) $18,138 (2) $6,432, Love-Richards Co., Hoopeston, (1) $18,138 (3) $24,038 (7) $91,658 (8) $12,956, M. & P. Contg. Co., Rockport, Ind., (3) $24,900. W. H. Shons, 109 Spring St., Freeport, (1) $17,936 (3) $24,300 (5) $84,508 (7) $89,900 (8) $12,692 (9) $7,630 (11) $19,350, Powers-Thompson Constr. Co., Joliet, (9) $10,932 (11) $23,733. J. R. Stevens, Kirkwood, (4) $14,704, Continental Bridge Co., Monadnock Blk., Chicago, (2) $6,531 (10) $11,767, Vincennes Bridge Co., Vincennes, Ind., (6) $5,828, Illinois Steel Bridge Co., Jacksonville, (10) $12,084, Rochester Bridge Co., Rochester, Ind., (2) $6,365 (6) $5,773 (10) $11,703. H. A. Reschke Co. (address not available), (4) $13,617, Layton Constr. Co., Muscatine, Ia., (4) $16,221. L. C. Kessler, Edwardsville, (5) $85,241 (8) $13,128. J. E. Parkham Constr. Co. (address not available), (5) $84,685 (7) $92,000. W. C. Johnson, 512 South High St., Belleville (6) $5,664. Joliet Bridge & Constr. Co., Joliet, (9) $7,929. Noted Oct. 19 and 26.

CONTRACTS AWARDED

Mass., Bridgewater—Towns of Bridgewater and Middleboro, and State of Massachusetts, 150 ft. rein.-con. beam bridge between here and Middleboro, to B. L. Thomas Constr. Co., Cherry St., Middleboro, $30,310. Noted Oct. 26.

S. C., Chesterfield — Comrs. Chesterfield and Lancaster Counties, rein.-con. bridge over Lynchs River, to P. R. Moore, Lancaster, $26,000. Noted Sept. 21.

Tennessee—State Hy. Dept., Nashville, 202 ft. rein.-con. and steel bridge on Federal Aid Project 62, sta. 68-77, located at Lawrenceburg, to Vincennes Bridge Co., Vincennes, Ind., $19,537. Noted Oct. 26.

Mont., Belt—State Hy. Comn., Helena, one 90 ft. steel truss span, concrete floor and abutments, wooden piling, here, on Federal Aid Project 72, Cascade Co., engrs. est. $25,000, two 105 ft. and one 37 ft. steel pony trusses, concrete abutments, on Belt-Receville Rd., Federal Aid Project 73, Proposal B, Cascade Co., engrs. est. $35,000, to McGuire & Blakeslee, Great Falls, $23,933 and $27,452 respectively. Noted Oct. 19.

Mich., Lansing—J. A. Parsons, city clk., 565 ft. rein.-con. bridge with 3 arch spans over Grand River, 65 ft., 71 ft. and 85 ft., to Koss Constr. Co., 2818-5th St., Des Moines, Ia., $139,000. City to furnish cement. Noted Oct. 19.

Wis., Stanley—Rein.-con. and steel bridge over Wolff River, rein.-con. and steel dam, concrete substructure, 13,060 lb. steel, to W. A. Brown, Stanley. Engrs. est. $25,000.

Minn., Grand Marais—See "Streets and Roads."

Kan., Iola—See "Streets and Roads."

Tex., Laredo—Laredo Bridge Co.; bridge approaches on Mexican side Rio Grande River, to Jambers & Tillman, Laredo, $42,000, plus cement and steel. Noted Oct. 5.

Dams

PROPOSED WORK

Ind., Ft. Wayne—Bd. Pub. Wks., plans collapsible dam, 300 ft. long, 12 ft. high, across Maumee River.

Wash., Tacoma—See "Waterworks."

Calif., Pescadero—C. F. Humphrey, 1212 Merchants Natl. Bank Bldg., San Francisco, represents Ano Nuevo Water Dist., which is to be organized, and plans construction 2 dams, one 53 ft. high, 387 ft. long on top, 32 ft. long on bottom, 20 ft. wide, earth fill; another 30 ft. high, 200 ft. long on top, 30 ft. long on bottom, 15 ft. wide, earth fill; 3,700 lin.ft. earth ditch, concrete lined; 500 lin.ft. 8 in. pipe line; 6 in. centrifugal pumping plant with 30 hp. gas engine.

BIDS DESIRED

W. Va., Bluefield—Nov. 25, by Bluefield Water Works & Impvt. Co., constructing clay or earthen dam. W. McCarthy, supt.; adv. this issue.

CONTRACTS AWARD

Wis., Stanley—See "Bridges."

Railways

PROPOSED WORK

Florida—Florida Citrus Highlands Ry., (recently incorporated), Tampa, plans grading right of way and building 10 mi. railroad from Avon Park to Sebring, 4 or 5 wood trestles, total length 200 ft. $50,000. Engineers of Seaboard Airline Ry., Norfolk, Va., will supervise construction.

Washington — Bloedel-Donovon Mills, Bellingham, plans 25 mi. standard gage logging road from fir tracks, Olympic Mountains, to Port Angeles. $750,000. Engineer not selected.

Ontario—Niagara St. Catherines Electric Ry., St. Catherines, plans to extend line 18 mi. to Bridgeburg. E. W. Oliver, genl. mgr.

CONTRACTS AWARDED

California—Swayne Lumber Co., Oroville, purchased 167,000,000 ft. timber from government and will construct 21 mi. narrow gauge logging railroad, in Plumas National Forest. Work will probably be done by day labor. Construction to proceed as demand requires.

Excavation, Drainage, Irrigation

PROPOSED WORK

Fla., West Palm Beach—Palm City D. D. constructing 75 mi. canals and laterals, 365,000 cu.yd. excav., to F. McKenzie, Miami, $75,000.

Wis., Prairie du Chien—Crawford Co. having plans prepared 20 mi. levee work, interior ditch and various channels to be constructed; two 36 in. centrifugal pumps; 1 story pumping station, brick and rein.-con., costing $100,000. Total $300,000. J. H. Mack, Capitol Bldg., Madison, engr.

Mont., Red Lodge—Carbon Co. making plans 20 mi. main canal in Red Lodge-Rosebud Irrigation Dist. $400,000. H. P. Sandels, co. clk. State Irrigation Comm., Helena, engrs.

Minn., Jackson—Jackson Co. plans reconstructing and extending County Ditch 3, Jobs 3 and 4. $33,000. P. D. McKellar, co. aud.

S. D., Rapid City—Pennington Co. plans North Divide Irrigation Project, 35,000 acres between Box Elder and Rapid Creeks, east of here. $105,000. M. K. Steele, and

Idaho, Bonners Ferry — Nash-Chaffin, engrs., Bonners Ferry, and others, interested in forming district commission, for deepening and straightening Kootenai river at Narrows between here and British Columbia.

Wash., Tieton—Tieton Water Users Assn. had preliminary plans prepared and will probably take bids early in spring for big-line irrigation system to irrigate an additional 3,000 acres land. $1,250,000. J. L. Lytell, project mgr. J. D. Goff, Seattle (street address not available), civil engr.

Ore., Tillamook—Plans 1,130 acre drainage district on Dougherty Slough, at south end Tillamook Bay. $50,000 bonds voted. Engineer not announced.

BIDS DESIRED

Ariz., Maricopa—Nov. 27 (change of date) by D. H. Smith, secy., Maricopa Irrigation Dist., furnishing labor, material and construction of necessary machinery and equipment, and installation of general irrigation system. H. S. Reed and S. K. Baker, 419 Fleming Bldg., Phoenix, engrs. Noted Nov. 2.

BIDS RECEIVED

Calif., Tracy — Naglee-Burk Irrigation Dist., (1) 6,476 lin.ft. concrete lining canals (2) 9.2 mi. drainage laterals (3) 2,660 lin. ft. main drainage canal (4) 1,800 ft. 18 in. rein.-con. pipe (5) lump sum per yd. for constructing rein.-con., superstructure to house pumping machinery equipment, from A. A. Tieslau, 2819 Grove St., Berkeley, (1) $0.23 (2) $1,450; D. MacDonald, Sacramento, (street address not available) (2) $1,100 (3) $0.18 (5) $40; H. W. Rohl, Sacramento, (street address not available) (2) $1,150 (4) $2 (5) $40; R. A. Carson, Ramont Bldg., Modesto, (3) $0.149; Hass & Doughty, San Francisco, (street address not available) (3) $0.1675; Valley Constr. Co., 5th and Harriet Sts., Sacramento (4) $1.50; Ross Constr. Co., Forum Bldg., Sacramento, (4) $2. Noted Oct. 19.

CONTRACTS AWARDED

Miss., Tunica—**McKinney Lake** D.D. of Tunica Co., excavation of open ditch system to reclaim 32,000 acres, Contrs. 1 and 2 incl. 1,091,000 cu.yd. floating dredgework, to Winston Dredging Co., Louisville, $110,000; Contrs. 3, 4 and 5, incl. 578,250 cu.yd. dry earth excav., to A. M. Alexander, Rosedale, $80,000. Noted Oct. 19.

Ia., Audubon—Audubon Co. Sects. 1 and 2, East Nishnabotna D.D. 3, 120,000 cu.yd. excav., to G. W. Condon, Farnam Bldg., Omaha, Neb., $25,000.

Calif., Tracy — Naglee-Burk Irrigation Dist., furnishing and installing one 12 in. double suction vertical centrifugal pump and one 30 hp. 60 cycle motor, etc., for pumping plant using Byron-Jackson pump, to Tracy Electric Co., Tracy, $2,485. Noted Oct. 19.

Streets and Roads

PROPOSED WORK

Massachusetts—State Bd. of Public Wks., State House, Boston, plans paving 2 mi. Westfield Rd., 20 ft., in Southampton, 70,400 sq.yd. bituminous macadam. $150,000.

N. Y., Binghamton—Plans widening, (30 ft.), removing buildings, grading, curbing and paving Hawley St. $30,000. W. E. Weller, city engr.

N. Y., Elmira — Plans paving Railroad Ave. from 2nd to Clinton Sts., West 2nd St. from Main to Walnut Sts., College Ave. from Water to Church Sts., East Miller St. from Maple Ave. to Erie St., West 3rd St. from Main St. to Railroad Ave., resurfacing South Main St., brick or other materials. $50,000. Bd. Pub. Wks., engrs.

N. Y., Niagara Falls—Plans widening 6,664 ft. Main St. from Pierce to Chasm Sts., 24 ft. $548,000. City's share of cost is $75,000. W. B. Bennett, Convention Hall, city engr.

New Jersey—State voted $30,000,000 bonds for roads.

N. J., Flemington—Hunterdon Co. plans paving 5 mi. road between Darts Mills and

Streets and Roads (Continued)

Copperhill, concrete. $200,000. Federal Government appropriates toward cost. G. Davis, Whitehouse Sta., engr.

N. J., Newark—Essex Co. voted $400,000 bonds for parkway to connect Branch Brook Park with Belleville Park.

N. J., Woodbury—Gloucester Co. plans building and improving 8 mi. roads from Woodbury to Good Intent, Woodbury to Natl. Park and Cross Keys to Williamstown. W. C. Cattell, Wenonah, engr.

Pa., Williamsport — Defeated $650,000 bond issue Nov. 7, for street improvements.

Maryland—State Rds. Comn., Baltimore, rejected bids Contr. G-24, Garrett Co., Contr. A-22, Allegheny Co., Contrs. M-37, M-38, M-39, and M-40, Montgomery Co. Noted Oct. 19.

W. Va., Buckhannon—Upshur Co. voted $284,000 bonds for road in Warren, Meade and Banks Dists.

W. Va., Morgantown—Bd. Comrs. Monongalia Co. plan paving with 7 in. concrete slab 1½ mi. roads in Grant Dist., 16 ft., $50,000; 1 mi. road in Union Dist., 16 ft., $30,000. T. Baritell, co. engr.

W. Va., Welch — McDowell Co. voted $400,000 bonds for roads in Adkins Dist.

W. Va., Weston—Lewis Co. voted $800,000 bonds improving roads in Freemans Creek Dist. Noted Oct. 19.

S. C., Winnsboro — Fairfield Co. voted $500,000 bonds for road work.

O., Youngstown—Plans grading, paving, etc., 3,800 ft. Milton Blvd., 50 ft. I. Turner, city engr.

Fla., Inverness—Citrus Co. having plans prepared 75 mi. paved roads. Election soon to vote on roads. E. V. Camp and associates, Moreland and De Kalb Aves., Atlanta, Ga., engrs.

Fla., Sarasota—Plans clearing and paving 20½ mi. Rd. 1, from Fruitville to Miakka; 4½ mi. Rd. 2 from Miakka to Vern; 4½ mi. Rds. 3 and 6 from Fruitville to Lockwood Ridge and Talum Ridge; 6¾ mi. Rd. 4 from Bee Ridge to Fruitville; 7½ mi. Rd. 5 from Miakka Bridge to Charlotte Co. line; 10 mi. Stump Pass Rd. All above $6,500 per mi. McElroy Eng. Co., 32-34 Giddens Bldg., Tampa, engrs.

Michigan — State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 7½ mi. Federal Aid Project 64, Crawford and Otsego Counties. F. F. Rogers, state highway comr.

Ia., Wapello—Making plans concrete paving 30 blocks, $200,000. A. E. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

Ia., Des Moines—See "Bridges."

Kan., Columbus—Cherokee Co. soon takes bids concrete paving 4.585 mi. Spring Valley Rd., Federal Aid Project 142, Sects. A and B, 18 ft. L. Noftzer, Columbus, engr.

Kan., Girard—Crawford Co. soon takes bids paving with brick or concrete 1 mi. Federal Aid Project 120 through Arma, 18 ft., brick or concrete; 0.942 mi. Federal Aid Project 3, Sects. A, 18 ft. C. M. Cooper, Girard, engr.

Kan., Hiawatha — Had plans prepared 25,000 yd. resurfacing and 20,000 yd. new paving, vitr. brick, vertical fibre brick, asphaltic concrete, concrete or bituminous concrete on concrete, concrete curb and gutter. $75,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Kan., Independence—Montgomery Co. had plans prepared and soon takes bids paving with bituminous macadam 4½ mi. Independence-Caney Rd., Federal Aid Project 121 Sect. A, 18 ft.; 4½ mi. Independence-Caney Rd., Federal Aid Project 121, Sect. D, 18 ft. H. K. Hibbard, Independence, engr.

Kan., Meade—Meade Co. plans improving 5.755 mi. Kansas-California Highway. Federal Aid Project 114, 24 ft., 25,000 cu.yd. earth excav., 10,110 yd. borrow, 157 yd. concrete, 10,000 lb. reinforcing, etc. C. G. Payne, Meade, engr.

Kan., Oberlin—Making plans paving 25,000 yd. various streets, possibly brick on concrete, concrete curb and gutter. E. T. Archer & Co., 612 New England Bldg., Kansas City, Mo., engrs.

Missouri—State Hy. Dept., Jefferson City, plans grading and paving 12 mi. road from Charleston to Wolf Island. Federal Aid Project 198 B, Mississippi Co., 30 ft. crown, 9 ft. concrete and 7 ft. gravel. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept. Jefferson City, plans grading and graveling 3 mi. road east and west through Webster Co., 16 ft., State Project Route 16, Sect. 35; 5 mi. road from Plattsburg to Kansas City, State Project Route 33, Clinton Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans grading and asphaltic concrete paving 4 mi. road west of Bethany, State Project Route 4, Sect. 24, Harrison Co.; grading and concrete paving 3 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 15, Jackson Co., 3 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 6, Jackson Co., 2.75 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 4, Jackson Co., 3.5 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 3, Jackson Co., 5 mi. road from St. Louis to Springfield, State Project Route 14-77. St. Louis Co., 5 mi. road from St. Louis to Springfield, State Project Route 14, Sect. 76, St. Louis Co., 4 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 71, St. Charles Co., 4 mi. road from Kansas City to St Louis, State Project Route 2, Sect. 68, St. Charles Co., 4 mi. road from Kansas City to St. Louis, State Project Route 2, Sect. 69, St. Charles Co., 3 mi. road from St. Louis to Kansas City, State Project Route 2, Sect. 59, Montgomery Co., all foregoing 18 ft. wide; grading and graveling 4 mi. road from Jefferson City to Eldon, State Project Route 15, Sect. 52, 12 ft., Cole Co., 4 mi. road from St. Lauis to St. Genevieve, State Project Route 25, Sect. 3, Jefferson Co., 4 mi. road from Malden to Risco, State Project Route 82, Sect. 3, New Madrid Co., 5 mi. road from Lebanon to Linn Creek, State Project Route 5, Sect. 72, Laclede Co., road from Memphis to Edina, State Project Route 16, Sect. 4, Scotland Co., 2 mi. road from Unionville to Milan, State Project Route 5, Sect. 2, Putnam Co., 2 mi. road from Unionville to Milan, State Project Route 5, Sect. 3, Putnam Co., all foregoing 16 ft. wide; grading, etc., 5 mi. road from Fairfax to Torkis, State Project Route 1, Sect. 7, Atchison Co., 4 mi. road from Kansas City to Parkville, State Project Route 59, Sect. 6, Platte Co., 2½ mi. road from Stanberry to Albany, State Project Route 4, Sect. 17, Gentry Co., 2½ mi. road from Stanberry to Albany, State Project Route 4, Sect. 18, Gentry Co., 2 mi. road from Fairfax to Torkis, State Project Route 61, Sect. 14, Atchison Co., 1.5 mi. road south of Macon, State Project Route 7, Sect. 21, Macon Co., 3 mi. road from Wayland to Canton, State Project Route 9, Sect. 7, Clark Co., 5 mi. road from Milan to Kirksville, State Project Route 6, Sect. 34, Sullivan Co., 5 mi. road from Milan to Kirksville, State Project Route 6, Sect. 33, Sullivan Co., 5 mi. road from Milan to Kirksville, State Project Route 6, Sect. 35, Sullivan Co., 3 mi. road from south of Warrensburg, State Project Route 13, Sect. 26, Johnson Co., 3 mi. road south of Warrensburg, State Project Route 13, Sect. 30, Johnson Co., 3 mi. road south of Warrensburg, State Project Route 13, Sect. 27, Johnson Co., 3 mi. road south of Warrensburg, State Project Route 13, Sect. 29, Johnson Co., 3 mi. road south of Warrensburg, State Project Route 13, Sect. 28, Johnson Co., 5 mi. road southwest of West Plains, State Project Route 80, Sect. 8, Howell Co., 5 mi. road southwest of West Plains, State Project Route 80, Sect. 7, Howell Co., 5 mi. road from Neosho to Arkansas, State Project Route 1, Sect. 106, Newton Co. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, rejected bids opened Sept. 28, 4.636 mi. road on Kings Highway, 24 ft., State Project Route 25, Sect. 12, Perry Co.; 3.22 mi. road east and west on Milan-Kirksville Rd., 24 ft., State Project Route 6, Sect. 38, Adair Co.; 2.764 mi. road east and west of Audrain, 24 ft., State Project Route 22, Sect. 9, Audrain Co. Noted Oct. 12.

Mo., St. Louis—Bd. Pub. Serv. soon takes bids paving 5,140 ft. West Florissant Ave. from Kingshighway to Union Blvd., 50 ft., 9,700 lin.ft. granite curb, 17,255 cu.yd. earth excav., 29,105 sq.yd. asphalt on concrete, $152,500; 1,350 ft. San Francisco Ave. from Geraldine Ave. to Kingshighway, 30 ft., 1,800 lin.ft. granite curb, 5,055 cu.yd. earth excav., 4,395 sq.yd. vitr. brick and 3,525 sq.yd. concrete base, $35,600; 1,250 ft. Slevin Ave. from Kingshighway to Geraldine Ave., 30 ft., 2,565 lin.ft. concrete curb, 2,245 cu.yd. earth excav., 3,740 sq.yd. vitr. brick on concrete, $25,300. W. W. Horner, 300 City Hall, engr.

Tex., Hemphill—Attorney General, Austin, approved $40,000 bond issue Highway Dist. 1, $27,000 Dist. 2, $57,000 Dist. 3, $70,000 Dist. 4, $60,000 Dist. 5, $30,000 Dist. 6, all in Sabine Co. W. C. Arnold, co. judge.

Tex., Lufkin—Attorney Generals Dept., Austin, approved $500,000 bond issue for roads in Angelina Co. G. R. Abney, co. engr.

Okla., Chanler—Having preliminary plans prepared paving various streets. $102,000. D. D. Landsaw, clk. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, consult. engrs.

Okla., Duncan—Stephens Co. voted $800,000 bonds constructing roads.

Wash., Mt. Vernon—Skagit Co. opens bids early in December paving 3 mi. Edison-Bow Rd. and 7.5 mi. road in Impvt. Dist. 10, 16 ft., concrete. F. Gilkey, Mt. Vernon, engr.

Calif., Porterville—Had plans prepared improving 3rd St. between Oak and Thurman Sts., 47,856 sq.yd. grading, 47,856 sq ft 1½ in. warrenite bituminous paving on 5 in. concrete base, 1,342 lin.ft. concrete curbing, 320 lin.ft. corrugated metal culverts. F. W. Pease, city engr.

Calif., Tulare — Having plans prepared improving Solida tract, 1½ in. asphaltic cement on 2½ in. asphaltic cement, concrete curbs, gutters and walks. $30,000. R. M. Berryhill, city engr.

N. S. Sydney—Voted $30,000 bonds for sidewalks. J. J. Curry, city treas.

Que., Montreal—Plans concrete sidewalks no 363 ft. Bordeau St. $2,825, 954 ft. St. Peter St. $6,257, 3,378 ft. Letourneaux St. $11,490, 645 ft. Frontenac St. $4,254, 1,650 ft. St. Urbain St. $6,326, 210 ft. Beaubien St. $200, cement slab sidewalks on 2,778 ft. Frechette St. $2,172, 7,555 ft. O'Shaughnessy St. $6,006, 12,935 ft. Bickerdike St. $10,318, 508 ft. lane north of Stadacona Ave. $3,133, 1,260 ft. lane west of McKay St. $8,510. H. A. Tetreault, chn. pub. wks.

Ont., St. Eugene—East Hawkesbury Twp. having plans prepared 1½ mi. bituminous macadam road, 20 ft. wide. $30,000. N. LaBrosse, twp. clk.

Ont., Toronto—Plans 5 mi. of 6 or 8 ft. concrete sidewalks on Yonge St. $82,800. R. C. Harris, city engr. and comr. wks.

BIDS DESIRED

Vermont—Nov. 28, at the office of T. W. Dix, comr. of highways, Montpelier, constructing 1.16 mi. bituminous macadam road in Highgate and 4.78 mi. gravel road in Danville; adv. this issue.

N. Y., New York—Nov. 22, by J. Miller, pres. Manhattan Boro. Municipal Bldg., repaving East 31st St. from 1st Ave. to East River, granite block on concrete, roadway of 74th St. from Amsterdam Ave. to Bway., sheet asphalt on concrete; restoring roadway foundation, curb and sidewalk of West 141st St., between 5th Ave. and point 200 ft. westerly thereof; widening and repaving the widened portion roadway of Canal St. from Bowery to Mulberry St., granite block on concrete.

N. Y., St. George—Nov. 22, by J. A. Lynch, pres. Richmond Boro. Boro Hall, paving from end of Richmond Turnpike at linoleum factory gate to Carteret Ferry, concrete.

S. C., Newberry—Dec. 1, by Newberry Co., constructing 12.6 mi. State Route 22 between point near Newberry and Broad River, 81,914 cu.yd. common and 828 cu. yd. rock excav., 39,634 cu.yd. topsoil surfacing, 2,491 lin.ft. rein.-con. pipe, 643 cu.yd. concrete, 45,870 lb. reinforcing. $47,500. M. C. Boulware, Newberry, engr.

S. C., Union—Nov. 28, by Union Co. constructing 2 mi. State Route 9, beginning at Survey Sta. 100-50 to Spartanburg-Union Co. line, 12,220 cu.yd. common excav., 6,903 cu.yd. topsoil surfacing, 450 lin.ft. rein.-con. pipe, 45 cu.yd. concrete. W. B. Deneen, Court House, engr.

S. C., Winnsboro—Nov. 20, at office H. E. Ketchin, Winnsboro, constructing 25,000 yd. sheet asphalt, asphaltic concrete or cement concrete pavement, 8,500 lin.ft. combined curb and gutter, 3,300 lin.ft. concrete gutter, 15,000 yd. grading. Lockwood, Greene & Co., Healey Bldg., Atlanta, Ga., engrs.

Georgia—Nov. 29, by State Hy. Dept., Atlanta, surfacing, etc., 7.2 mi. Washington-Thomson Rd., Federal Aid Project 295, Wilkes Co., 94.01 cu.yd. concrete, 19,759 lb. reinforcing, 38,416 cu.yd. earth and 200 cu.yd. rock excav., 19,069 cu.yd. sand clay surfacing, etc.; 6.66 mi. Washington-Elberton Rd., Federal Aid Project 314, Wilkes Co., 149.7 cu.yd. concrete, 6,937 lb. reinforcing, 47,787 cu.yd. earth and 200 cu.yd. rock excav., 17,495 cu.yd. sand clay surfacing; 10.58 mi. Washington-Lincolnton Rd., Federal Aid Project 315, Wilkes Co., 806.63 cu.yd. concrete, 69,933 lb. reinforcing, 86,371 cu.yd. earth and 2,300 cu.yd. rock excav., 27,820 cu.yd. sand clay surfacing, etc.; 6.848 mi. Adel-Valdosta Rd., Federal Aid Project 279, Sect. A and B, Cook Co., 141.63 cu.yd. concrete, 7,201 lb. reinforcing, 32,838 cu.yd. earth excav., 12,055 cu.yd. compacted clay gravel, 11.44 acres clearing, etc.; 10 mi. Washington-Lexington Rd., Federal Aid Project 293, Wilkes Co., 212.07 cu.yd. concrete, 9,452 lb. reinforcing, 50,025 cu.yd. earth and 200 cu.yd. rock excav., 26,685 cu.yd. sand clay surfacing, etc.; (State to furnish all cement F.O.B. nearest railroad station, on above) furnishing 23,000 ton clay-gravel for surfacing Project 279, Sects. A and B, Cook Co. W. R. Neel, Atltnaa, highway engr.

Fla., Ft. Lauderdale—Nov. 21, by Comrs. Broward Co., constructing Hallandale Rd., 24,000 sq.yd. macadam base and penetration surface, 22,000 cu.yd. excav., also 40 ft. concrete girder bridge across Cypress Creek. H. C. Davis, engr.

Streets and Roads (Continued)

Alabama—Dec. 5, by W. S. Keller, state highway engr., Montgomery, grading and surfacing with one of following, one course plain cement concrete, warrenite bitulithic on concrete or 8 in. waterbound macadam base, bituminous concrete on concrete or 8 in. waterbound macadam base, sheet asphalt on concrete base and vitr. brick on concrete base, 11.324 mi. Birmingham-Montgomery Highway, from Sta. 605 to Sta. 1202 plus 95, near Jefferson Co. line at end of Federal Aid Project 110, Shelby Co., 54 acres clearing, 122,404 cu.yd. common and 48,991 cu.yd. solid rock excav., 58,935 sta.yd. overhaul on excav., 800 lin. ft. 4 in. drain tile, 1,701 lin.ft. 18 to 24 in. c.i. pipe to be relaid, 813 cu.yd. concrete, 58,483 lb. reinforcing, etc.; 11.439 mi. Birmingham-Montgomery Highway, from Chilton Co. line to Sta. 605 near Saginaw, Shelby Co., 49 acres clearing, 73,296 cu.yd. common and 23,944 cu.yd. solid rock excav., 153,680 sta.yd. overhaul on excav., 800 lin. ft. 4 in. drain tile, 1,061 lin.ft. 16 to 30 in. c.i. pipe to be relaid, 537 lin.ft. 16 to 24 in. c.i. pipe, 579 cu.yd. concrete, 39,128 lb. reinforcing, etc. Noted Oct. 5.

Alabama—Dec. 12, by W. S. Keller, state highway engr., Montgomery, grading and gravel surfacing 13.897 mi. Opelika-Dadeville Rd., Lee Co., 22 acres clearing, 117,551 cu.yd. common and 14,510 cu.yd. solid rock excav., 30,913 sta. yd. overhaul on excav., 36,688 cu.yd. imported gravel surfacing within 1 mi. haul, 69,000 cu.yd. gravel surfacing hauled additional ½ mi., 2,865 lin.ft. 15 to 24 in. pipe, 570 cu.yd. concrete, 25,692 lb. reinforcing, etc.; 8.83 mi. Federal Aid Project 1, and 10.04 mi. Federal Aid Project 68, from Montgomery Co. line to Union Springs, Bullock Co., Project 1 includes 17,398 cu.yd. common excav., 21,000 cu.yd. imported gravel surfacing, Project 68, 37 acres clearing, 99,702 cu.yd. common excav., 43,478 sta. yd. overhaul on excav., 23,600 cu.yd. imported gravel surfacing, 1,933 lin.ft. 15 to 24 in. pipe, 647 cu.yd. concrete, 53,064 lb. reinforcing, 127,290 ft. treated timber bridges, 6,224 lin.ft. treated timber pile bridges, 1,248 sq.yd. 1½ in. bituminous surfacing, cold mix, etc.

Louisiana — Nov. 28, by State Hy. Comn., Redmond Bldg., Baton Rouge, grading and gravel surfacing 7.8 mi. Project 105, Melville-Port Allen Highway, Sect. A, Ravenwood to Rd. Dist. 2, Point Coupee Parish, also 11.48 mi. Sect. B, through Rd. Dist. 2 to Iberville Parish line, 9.8 mi. Project 352, Winnsboro-Rayville Highway, Franklin Parish; grading and surfacing with clamshells 4.97 mi. Project 354, Morgan City-Thibodaux Highway, Chacahoula to Brule Settlement, Terrebonne and Lafourche Parishes. W. T. Peterman, chn.

Ia., Anamosa—Nov. 28, by Auditor Jones Co., grading 7.61 mi. road east of here, Federal Aid Project 163, Sect. A, 105,936 cu.yd. earth and 246 cu.yd. rock excav., 39,320 ft. 6 in. tile, etc. $35,000. F. S. Yetter, co. engr.

Minnesota—Nov. 28, by State Hy. Dept., St. Paul, grading, gravel surfacing, bridging, etc., 2.4 mi. State Project 12-22, Federal Aid Project 310, Carver Co., 109,000 cu.yd. excav., portable and monolithic culverts, incl. Bridge 3697 one hundred forty-seven ft. long, Bridge 3698 thirty ft. long and Bridge 3699 thirty ft. long, concrete, $35,000; 14 mi. State Project 22-21, Sibley and Nicolet Counties, 22,000 cu.yd. gravel surfacing, $25,000; 15 mi. State Project 30-21, Federal Aid Project 222, Otter Tail Co., 24,000 cu.yd. gravel surfacing, $26,000; 14 mi State Project 23-21, Federal Aid Project 234, Benton Co., 22,000 cu.yd. gravel surfacing, $25,000; 13 mi. State Project 65-21, Federal Aid Project 248, Clearwater Co., 20,000 cu.yd. gravel surfacing, $25,000. State Highway Dept., St. Paul, engrs.

Kan., Arma—Nov. 27, by Comrs. Crawford Co. and City Council concrete or brick paving 0.945 mi. Commercial Highway, 18 ft. City will also receive bids for additional 6 ft. on each side of above road. C. M. Cooper, Girard, co. engr. Noted Oct. 19.

Kan., Girard—Nov. 27, by Comrs. Crawford Co., concrete or brick paving 1 mi. Sect. A, Arcadia Branch Rd., 18 ft., 2,100 yd. excav., 10,322 yd. paving, etc. C. M. Cooper, co. engr.

Tex., La Grange—Nov. 22, by J. P. Ehlinger, judge Fayette Co., grading and gravel surfacing 12.87 mi. State Highway 3-B, Federal Aid Project 286, 16 ft., 54,464 cu.yd. roadway, 63,222 cu.yd. borrow, 1,098 cu.yd. loose and 749 cu.yd. solid rock excav., 2,077 cu.yd. concrete, 228,640 lb. reinforcing steel, 33,749 cu.yd. gravel surfacing. $162,565. A. Schlafli co. engr.

Tex., Richmond—Nov. 25, by C. D. Myers, judge Ft. Bend Co., grading, surfacing and topping 10.41 mi. State Highway 19, Federal Aid Project 318, 16 ft., 59,366 cu.yd. roadway, 79,189 cu.yd. borrow, 82,708 gal. asphaltic oil, 529.6 cu.yd. concrete, 15,490 cu. yd. shell base and binder, 8,614 cu.yd. gravel base, 11,027 cu.yd. crushed stone, 3,446 cu. yd. crushed limestone cover material, 20,958 lb. reinforcing. $167,600. C. H. Kendall, Sugarland, co. engr.

Tex., Sherman—Nov. 23, by D. B. Stead, judge Grayson Co., grading and gravel surfacing 3.69 mi. State Highway 5, Federal Aid Project 292, 18 ft., 217 cu.yd. concrete, 14,759 cu.yd. roadway, 15,698 cu.yd. borrow, 18,781 lb. reinforcing, 8,669 cu.yd. gravel surfacing. $36,850. H. M. Scott, co. engr.

Tex., Sinton—Nov. 23, by J. C. Houts, judge San Patricio Co., reshaping road and surfacing with 1 in. cold limestone rock asphalt 15.06 mi. State Highway 9, 16 ft., 141,332 sq.yd. bituminous macadam, 1,955.8 cu.yd. limestone screenings, 600 lb. rolling. $107,600. A. C. Pancoast, co. engr.

Oklahoma—Nov. 22, by M. L. Cunningham, state highway engr., Oklahoma City, constructing gravel road, 7.4356 mi. Federal Aid Project 75, Okfuskee Co., 16,790 cu.yd. earth, 67 cu.yd. loose rock, 2,700 cu.yd. solid rock excav., 5,680 cu.yd. overhaul, 30,102 cu.yd. borrow, 37.5 cu. yd. 1:1½:3 mix concrete, 1,037 cu.yd. concrete, 55,802 lb. reinforcing, 62,050 lb. fabricated structural steel, 23,755 cu.yd. 9 in. compacted gravel, 173,298 cu.yd. gravel overhaul, alternate No. 1, 78,352 sq.yd. 7 in. concrete pavement; constructing paved road, 10.026 mi. from Lincoln Co. line through Paden and Boley, Federal Aid Project 76, Okfuskee Co., 47,647 cu.yd. earth, 10,367 cu.yd. borrow, 700 cu. yd. loose rock and 800 cu.yd. solid rock excav., 12,461 sta. cu.yd. excav. overhaul, 1,222 cu.yd. concrete, 59,974 lb. steel bar reinforcement, 11,037 lb. structural, for one I beam bridge, 42,364 cu.yd. gravel surfacing compacted in place 9 in. thick, bituminous carpet coat treatment or 105,884 sq.yd. 7 in. concrete pavement, 18 ft. wide; 12.204 mi. road from Okemah east to Okmulgee Co. line, Federal Aid Project 64, Okfuskee Co., 26,127 cu.yd. earth, 5,335 sta. cu.yd. earth overhaul, 36,199 cu.yd. borrow, 2,412 cu.yd. solid rock and 842 cu.yd. loose rock excav., 39,384 cu.yd. gravel or 228,000 sq.yd. concrete pavement, 1,166 cu.yd. concrete, 49,831 lb. reinforcement, 29,870 lb. I beam structural steel, above quantities include one 40 ft. I beam bridge at Sta. 443; hardsurfacing 11.4 mi. Federal Aid Project 100, Okfuskee Co., 49,996 cu.yd. earth, 300 cu.yd. loose rock and 450 cu.yd. solid rock excav., 25,744 cu.yd. overhaul, 23,542 cu.yd. borrow, 1,096 cu.yd. concrete, 58,020 lb. reinforcing, 28,208 lb. fabricated steel, 40 cu.yd. rubble masonry, 37,009 cu. yd. 9 in. compacted gravel, 102,874 cu.yd. gravel overhaul, 121,486 sq.yd. concrete paving; hardsurfacing 3,839 mi. Federal Aid Project 81, Pittsburgh Co., to consist of No. 1, 2 in. bituminous macadam on 8 in. burnt shale base, or No. 2, 2 in. bituminous macadam on 6 in. waterbound macadam, or No. 3, 3 in. vitr. blocks on 8 in. burnt shale or No. 4, one course plain cement concrete pavement, 7 in. centers and edges, involving 17,131 cu.yd. earth excav., 493 cu.yd. borrow, 5,500 cu.yd. overhaul, 451 cu.yd. concrete, 21,916 lb. reinforcing, No. 1, 13,513 cu.yd. shale base and 40,540 sq.yd. 2 in. bituminous macadam, No. 2, 6,756 cu.yd. broken stone base, 40,540 sq. yd. 2 in. bituminous macadam, No. 3, 42,726 sq.yd. 3 in. vitr. blocks, 40,540 lin.ft. curb, 13,413 cu.yd. burnt shale, No. 4, 49,540 sq.yd. one course plain cement concrete pavement; constructing concrete road with 2 in. topeka top, 6.04 mi. Federal Aid Project 70, Garfield Co., Sect. A-B, 2,127 cu.yd. earth excav., 20 cu.yd. concrete, 2,632 lb. reinforcing, 10,518 sq.yd. combination cement concrete header curbing and base course, 9,933 sq.yd. 2 in. Topeka top, Sect. C-D, 4,819 cu.yd. earth excav., 20 cu.yd. concrete, 2,632 lb. reinforcing, 30,638 sq.yd. combination cement concrete header curbing and base course, 28,935 sq. yd. 2 in. Topeka top, Sect. E-F, 1,283 sq. yd. earth excav., 10 cu.yd. concrete, 1,316 lb. reinforcing, 6,400 sq.yd. combination cement concrete header curbing and base course, 6,044 sq.yd. 2 in. Topeka top, Sect. F-G, 12,809 cu.yd. earth excav., 71 cu.yd. concrete, 10,138 lb. reinforcing, 16,135 sq. yd. combination cement concrete header curbing and base course, 15,238 sq.yd. 2 in. Topeka top; 1 mi. Federal Aid Project 71, Garfield Co., 1,091 cu.yd. earth excav., 30 cu.yd. concrete, 3,948 lb. reinforcing, 10,558 sq.yd. combination cement concrete header curbing and base course, 9,971 sq. yd. 2 in. Topeka top; constructing crushed rock road with gravel surface, 9,684 mi. Federal Aid Project 74, Murray Co., 36,032 cu.yd. earth, 2,395 cu.yd. loose rock and 13,354 cu.yd. solid rock excav., 14,607 cu.yd. overhaul, 5,951 cu.yd. borrow, 532 cu.yd. concrete, 227 ft. 18 in. vitr. pipe, 29,197 lb. reinforcing, 11,379 cu.yd. gravel surfacing, 10,893 cu.yd. crushed rock overhaul, 4311

ROAD WORK—ST. LOUIS, MO.

Bids were opened by Bd. Pub. Serv., City Hall, for improving Watson Rd. from Southwest to Pernod Aves., (A) Webb-Kunze Constr. Co., 5927 Fyler Ave., (awarded contract); (B) Fruin-Colnon Constr. Co., Merchants-LaClede Bldg. The unit bids were as follows:

	A	B
53,000 cu.yd. grading	$0 75	$0 90
160 hrs. rolling subgrade	4 00	3 50
135 sq.yd. removing old brick and bedding course	50	50
50 sq.yd. removing old concrete	50	90
10 sq.yd. removing old sidewalk paving	50	35
40 lin.ft. removing existing curb	50	35
20 lin.ft. reset curb taken up	20	85
135 sq.yd. vitrified brick and sand cement bedding course	50	4 00
25,550 sq.yd. concrete pavement	3 25	4 25
1,125 lin. ft. oak headers	50	50
100 sq.ft. restoring granitoid sidewalk	25	40
20 cu.yd. concrete	8 00	12 00
10,210 lin.ft. concrete header	65	50
36,600 cu.ft. macadam and limestone	08	20
100 cu.ft. gravel and sand	10	15
100 cu.ft. cinders	10	10
2M ft. b.m. 2 in. plank	20 00	50 00
120 tons hydrated lime	25 00	35 00
4,800 lin. ft. metal joints	20	25
1,500 lin. ft. joint filler	20	25
Extended totals	$137,745	$180,342

ROAD WORK—TENNESSEE

Following are lowest three bids opened Oct. 27, by State Highway Dept., Nashville, for surfacing 10.7 mi. road from Carthage to Smith Co. line, Project 68, Smith Co., (A) Phillips, Simpson & McGugin, Stahlman Bldg., Nashville, (awarded contract); (B) B. Williams, Murfreesboro; (C) Cox & Anderson Bros., Cookeville. The unit bids were as follows:

	A	B	C
41,260 cu.yd. excavation common	$0.40	$0.44	$0.50
23,733 cu.yd. excavation solid rock	1.40	1.35	1.50
53,920 cu.yd. borrow	.35	.39	.40
258 cu.yd. excavation dry	.50	1.00	.75
48 cu.yd. excavation rock (Str.)	5.00	2.50	2.50
100 cu.yd. overhaul	.03	.03	.03
5,425 sq.yd. scarifying	.05	.04	.05
2,100 standard shoulder drains	.50	.60	.50
100 cu.yd. sub-base	2.00	2.50	3.00
104,008 sq.yd. H.P. coarse stone base "C" 8-in.	.64	.70	.79
443.47 cu.yd. class "A" concrete	20.00	22.00	22.50
320.58 cu.yd. class "B" concrete	19.00	18.50	20.00
52,569 lb. deformed steel bars	.06	.05½	.05
125 cu.yd. dry masonry	3.50	7.50	10.00
140 lin.ft. 18-in. c.m. pipe	2.25	2.50	2.25
44 lin.ft. 8-in. v.c. pipe	1.50	.30	1.00
7,475 lin.ft. wooden railing	.50	.80	.75
21,100 sq.yd. grassing slopes	.10	.05	.05
Extended totals	$161,841	$173,182	$189,196

Streets and Roads (Continued)

cu.yd. gravel overhaul, 19,895 cu.yd. crushed rock.

Oklahoma—Nov. 29, by M. L. Cunningham, state highway engr., Oklahoma City, constructing 31.0729 mi. gravel roads, 8 in. thick, with asphaltic oil carpet coat, 18 ft. wide, from Ft. Smith, Ark., to Poteau, Okla., Federal Aid Project 84, Le Flore Co., Sects. A, B, C, and D, 93,311 cu.yd. earth excav., 120,257 cu.yd. borrow, 2,813 cu.yd. concrete, 764 ft. 12-36 in. vitr. clay tile, 2,371 ft., concrete pipe, $6,920 cu.yd. gravel surface, 153,473 yd. gravel per half mi. yd. overhaul, 12,685 sta.yd. earth overhaul, 327,666 sy.yd. asphalt oil surface, 93,538 lb. reinforcing, 125,000 lb. fabricated steel.

Utah—Nov. 20, by State Rd. Comn., Salt Lake City, grading and gravel surfacing 7.459 mi. Federal Aid Project 42 A, from Heber City to Hailstone, 18 ft., Wasatch Co.; furnishing and fabricating 61,500 lb. structural steel, (separate bids for erection) 63 ft. span bridge over Provo River, Wasatch Co. H. C. Means, state highway engr.

Calif., San Francisco—City and San Francisco Co. receiving bids improving Buchanan St. between Herman and Duboce Aves., 22,091 cu.yd. excav., 623 lin.ft. concrete curb, 370 lin.ft. 8 in. sewer, 4,364 sq.ft. brick pavement, 7,715 sq.ft. asphaltic concrete pavement. $34,000. M. M. O'Shaughnessy, city engr. No bids received Nov. 8.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister of highways, Quebec, waterbound macadam on 5.75 mi. Laprairie-Valleyfield Highway, in St. Timothee and Lac St. Louis Parishes, M. Nectkar, ch. engr.

Quebec—Dec. 30, by J. L. Boulanger, deputy minister Dept. Rds., Quebec, building 14.2 mi. Grande Baie-St. Bruno Highway, gravel on 6.5 mi. in St. Bruno, waterbound macadam on 1.8 mi. in Jonquiere, 4 mi. in Chicoutimi, and 1.9 mi. in Bagotville; also graveling 17.1 mi. Beauceville-Sherbrooke Highway. M. Nectkar, ch. engr.

BIDS RECEIVED

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids Nov. 10, repaving (1) 27th St. (2) 30th St., both sheet asphalt, (3) Mulberry St. (4) Mott St., both granite block, grading (5) Chittenden Ave., grading, curbing and flagging (6) Pinehurst Ave., from M. Del Balso, 660 East 221st St., (1) $31,740 (2) $21,021; H. E. Fox Contg. Co., 81 East 125th St., (1) $33,643 (2) $22,695; Burnside Contg. Co., 270 Burnside Ave. (1) $33,763 (2) $23,643; P. Cramer, 114 East 52nd St., (3) $2,966 (4) $9,381; D. J. McCarthy, 88 Audubon Ave., (3) $3,131 (4) $10,399; P. J. Kearns, 2306 Creston Ave., (3) $3,565 (4) $10,994, Sicilian Asphalt Paving Co., 41 Park Row, (5) $17,416 (6) $20,915; Asphalt Constr. Co., 208 Bway., (5) $19,433 (6) $24,139; Brusstar Constr. Co., Harlem River and 150th St., (5) $19,963; Interboro Asphalt Co., 2306 Custom Ave., (6) $23,689. Noted Nov. 2.

Louisiana—State Hy. Comn., Redmond Bldg., Baton Rouge, opened bids Nov. 7, grading and gravel surfacing (1) 3.98 mi. Sect. A, Project 8, Ruston-Arcadia Highway (2) 10.48 mi. Sect. A, Project 110, Ruston-Arcadia Highway, from C. W. George & Co., Shreveport, (1) $15,142 (2) $63,624; Meyer-Greenwall Contg. Co., Monroe, (1) $15,231; A. M. Wilkes, (2) $66,000 Noted Oct. 26.

Kentucky—State Hy. Dept., Frankfort, grading and surfacing with rock asphalt 0.415 mi. Pineville-Middlesboro Rd., State Project 6, Sect. C, Bell Co., from Davis & Graham, Pineville, using vitr. pipe $17,441, concrete pipe $17,507, c.i. pipe $17,654; grading 6.363 mi. Virginia State Line—Lynch Rd., State Project 56, Sect. A, Harlan Co., from R. G. Hill, Knoxville, Tenn., (street address not available), 39 acres clearing at $50 per acre, 46,830 cu.yd. earth excav. $0.32, 46,835 cu.yd. loose rock excav. $0.38 182,771 cu.yd. solid rock excav. $0.68, 4,760 cu.yd. borrow $0.38, 80,538 sta. yd. overhaul $0.02, 617 cu.yd. cement rubble masonry $10, 42,890 lb. reinforcing $0.07, 2,080 lin.ft. 18 in. rein-con. pipe $3.04, 720 lin.ft. 24 in. rein.-con. pipe $4.07, etc., total $192,476, Sutton Constr. Co., Ashland, $193,350. Dempster Constr. Co. 721 North Central St. Knoxville, Tenn., $206,361. Noted Nov. 2.

Mich., Detroit—Grading, shaping and paving with one course rein.-con., (1) Alley 1611 (2) Alley 1612 (3) Alley 1613 (4) Alley 1614 (5) Alley 1615 (6) Alley 1616 (7) Alley 1617 (8) Alley 1618 (9) Alley 1619 (10) Alley 1620 (11) Alley 1621 (12) Alley 1622 (13) Alley 1623 (14) Alley 1624 (15) Alley 1625 (16) Alley 1626 (17) Alley 1627, from T. E. Currie, 20 McGraw Bldg. (1) $9,694 (9) $4,307; Otis Cement Constr. Co., 806 Hammond Bldg., (1) $10,099 (3) $1,630 (4) $1,490 (6) $4,809 (7) $2,610 (8) $5,577 (9) $4,412 (10) $1,309 (12) $1,273 (13) $2,161 (14) $1,296 (15) $4,718 (16) $7,142 (17) $1,782; R. J. Powelson Co., 6415 Iroquois Ave., (1) $10,099 (2) $2,326 (3) $1,618 (4) $1,513 (5) $4,925 (6) $4,904 (7) $2,692 (8) $5,515 (9) $4,412 (10) $1,334 (12) $1,297 (13) $2,204 (14) $1,319 (15) $4,693 (16) $7,333 (17) $1,826; G. Nunn, 6409 3rd Ave., (2) $2,247 (3) $1,563 (5) $5,135 (11) $1,488; Smith Trucking Co., 3325 West Euclid Ave., (2) $2,264 (5) $4,923 (11) $1,495.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, portland cement concrete paving (1) 4.88 mi. Route 2, Sect. 52, De Witt Co. (2) 4.88 mi. Route 2, Combination A, De Witt Co., incl. 1 steel bridge (3) 5.04 mi. Route 3, Sect. 8, Rock Island Co. (4) 3.75 mi. Route 3, Sect. 9, Rock Island Co. (5) 2.37 mi. Route 3, Sect. 10, Rock Island Co. (6) 11.16 mi. Route 3, Combination B, Rock Island Co. (7) 3.75 mi. Route 3, Combination C, Rock Island Co., incl. 1 bridge (8) 11.16 mi. Route 3, Combination D, Rock Island Co. incl. 1 bridge, (9) 5.2 mi. Route 3, Sect. 18, Rock Island Co. (10) 6.82 mi. Route 4, Sect. 5, Grundy-Will Co. (11) 13.11 mi. Route 4 and Project 25, Combination Q, Grundy-Will Co. (12) 1.66 mi. Route 6, Sect. 29, Whiteside Co. (13) 6.2 mi. Route 9, Sect. 6, Tazewell Co. (14) 3.71 mi. Route 14, Sect. 1, Perry Co. (15) 5.24 mi. Route 14, Sect. 3, Perry-Franklin Co. (16) 8.95 mi. Route 14, Combination E, Perry-Franklin Co. (17) 3.22 mi. Route 15, Sect. 19, Wayne Co. (18) 3.35 mi. Route 15, Sect. 20, Wayne Co. (19) 6.57 mi. Route 15, Combination F, Wayne Co. (20) 6.57 mi. Route 15, Combination G, Wayne Co. incl. 2 grading sections, (21) 7.99 mi. Route 17, Sect. 3, Marshall Co. (22) 5.85 mi. Route 17, Sect. 4, Marshall Co. (23) 13.84 mi. Route 17, Combination H, Marshall Co. (24) 4.12 mi. Route 18, Sect. 13 C, Kendall Co. (25) 2.29 mi. Route 18, Sect. 14-C, Kendall Co. (26) 6.41 mi. Route 18, Combination K, Kendall Co. (27) 4.26 mi. Route 20, Sect. 15, McHenry Co. (28) 5.82 mi. Route 25 Sect. 33, Iroquois-Ford Co. (29) 5.98 mi. Route 25, Sect. 34, Iroquois Co. (30) 6.5 mi. Route 25, Sect. 35, Iroquois Co. (31) 18.3 mi. Route 25, Combination I, Iroquois-Ford Co. (32) 3.32 mi. Route 25, Sect. 38, Kankakee-Iroquois Co. (33) 3.2 mi. Route 25, Sect. 39, Kankakee Co. 33a) 8.66 mi. Route 25, Combination J, Kankakee Co. (34) 2.92 mi. Route 28, Sect. 3, Knox Co. (35) 6.82 mi. Route 37, Sect. 4, Franklin Co. (36) 6.29 mi. Project 25, Sect. 6, Grundy Co. (37) 3.64 mi. Project 38, Sect. 46, Schuyler Co. (38) 3.64 mi. Project 38, Combination L, Schuyler Co. incl. 1 grading section, (39) 2.5 mi. Project 38, Sect. 47, Schuyler Co. (40) 6.14 mi. Project 38, Combination S, Schuyler Co. (41) 6.14 mi. Project 38, Combination T, Schuyler Co. incl. 1 grading section; grading (42) 93,316 cu.yd. excav. Route 3, Sect. 23-A, Mercer Co. (43) 263,700 cu.yd. Route 12, Sect. 24-A, Clinton Co. (44) 20,375 cu.yd. Route 15, Sect. 19-A, Wayne Co. (45) 28,285 cu.yd. Route 15, Sect. 20-A, Wayne Co. (46) 48,660 cu.yd. Route 15, Combination M, Wayne Co. (47) 46,700 cu.yd. Route 16, Sect. 13-A, Shelby Co. (48) 23,610 cu.yd. Route 25, Sect. 12-A, Effingham Co. (49) 39,630 cu.yd. Route 25, Sect. 13-A, Effingham-Shelby Co. (50) 13,460 cu.yd. Route 25, Sect. 14-A, Shelby-Cumberland Co. (51) 76,700 cu.yd. Route 25, Combination N, Effingham-Shelby-Cumberland Co. (52) 15,267 cu.yd. Project 25, Sect. 6-A, Grundy Co. (53) 33,815 cu.yd. Project 38, Sect. 46-A, Schuyler Co., from

Verhey Constr. Co., Champaign, (1) $119,257 (21) $134,153 (28) $120,447 (29) $130,406 (30) $156,019.

L. S. Kuhn, Bloomington, (1) $110,550 (23) $57,021 (42) $46,647.

R. F. Conway, 133 West Washington St., Chicago, (1) $112,446 (3) $122,726 (4) $93,905 (5) $62,093 (6) $255,300 (10) $141,881 (11) $211,146 (24) $86,211 (25) $48,499 (26) $130,340 (32) $70,979 (33) $114,400 (33a) $169,000 (36) $89,660.

H. W. Horst, Horst Bldg., Rock Island, (4) $94,437 (5) $62,600 (9) $118,927.

Wright Constr. Co., 211 Flynn Blk., Des Moines, Ia., (6) $254,615 (9) $139,519.

F. C. Nelson, Racine, Wis., (8) $329,900.

Cass Constr. Co., Des Moines, Ia. (street address not available), (3) $126,085.

N. B. Ridge, Sterling, (12) $41,280.

W. O'Neill Sons Co., Faribault, Minn., (3) $116,979 (4) $87,771 (5) $58,466 (6) $242,595.

Layton Constr. Co, Muscatine, Ia., (8) $342,000 (34) $75,773.

Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia., (9) $144,584.

Chicago Heights Coal Co., Chicago Heights, (11) $214,000.

Powers & Thompson, Joliet, (10) $158,356 (11) $206,348 (52) $8,797.

Stressenreuter Bros., 3020 South Halsted St., Chicago, (10) $145,615 (22) $119,057 (30) $155,252 (36) $90,846.

Booth & Gilcrist, Gardner, (36) $94,770 (52) $9,861.

Hoffman & Small, Lincoln, (13) $153,790.

Jansen & Schaffer, Pekin, (13) $163,104 (23) $254,458.

J. Awe, Lincoln, (13) $171,161.

Illinois State Constr. Co., Chicago, (street address not available), (12) $37,234 (27) $96,075.

E. Berns & Co., Indianapolis, Ind., (street address not available), (14) $93,151 (15) $129,170 (16) $202,109 (50) $12,227 (51) $56,629

Wabash Constr. Co., Vincennes, Ind., (14) $84,717 (15) $117,418 (16) $192,029.

H. H. Hall Constr. Co., Murphy Bldg., East St. Louis, (14) $75,272 (15) $115,740 (16) $185,000.

A. J. Parrish, Paris, (19) $124,747.

Nelson Bros. & Co., Jerseyville, (18) $65,788.

Foulkes Constr. Co., 705 Ohio St., Terre Haute, Ind., (19) $120,000 (17) $64,953 (20) $156,000 (35) $128,333.

O. Arnold, Casey, (17) $53,493 (18) $57,723 (20) $139,400 (35) $119,471 (44) $15,172.

Indiana Road Paving Co., Indianapolis, Ind., (street address not available), (22) $115,982.

Alzina Constr. Co., Springfield, (street address not available), (21) $153,868 (23) $251,956 (29) $131,863 (31) $359,800 (47) $16,503.

W. D. Lowengran Co., (address not available), (21) $142,251 (22) $109,571 (23) $243,032.

H. Zauper, Mendota, (24) $84,590 (25) $49,204 (26) $131,500.

Trompeter & Sons, Peru, (26) $127,500.

Dunn Constr. Co., Chicago, (street address not available), (24) $87,086 (25) $45,912 (27) $102,920.

C. E. Giertz & Son, (address not available), (27) $101,166.

W. C. McNeely Co., (address not available), (28) $123,616 (31) $369,000.

C. W. Clark Co., Clinton, Ind. (street address not available), (28) $111,076 (29) $119,587 (30) $146,405 (31) $357,500.

French Constr. Co., Fairfield, (17) $53,956 (18) $56,798 (20) $142,000 (44) $14,778 (45) $18,143.

Warner Constr. Co., 106 North La Salle St., Chicago, (32) $74,602 (33) $114,499.

Skangs & Gannon, Watseka, (32) $72,113 (33) $110,200 (33a) $159,000.

C. E. Hamilton, Carbondale, (35) $129,110.

Russel-Condon Constr. Co., Rushville, (37) $106,684 (39) $67,935 (41) $168,320.

F. B. Rees, 1710 Lind St., Quincy, (37) $85,852 (39) $61,549 (41) $172,000 (53) $24,913.

Lamereaux Bros., 805 Brandeis Theatre Bldg., Omaha, Neb., (42) $43,904.

Coopers Constr. Service Co., St. Louis, Mo., (street address not available), (46) $35,600 (51) $62,000 (53) $23,398.

Tennell-Foothacker, Patoka, (47) $16,734.

Buis & Olsen, St. Joseph, Mo., (street address not available), (42) $48,102.

M. B. Gates, Lincoln, (43) $55,328.

Rood Constr. Co. (address not available), (43) $63,354.

D. C. Jordan, (address not available), (44) $11,444 (45) $14,404.

W. B. Kelley, St. Joseph, Mo. (street address not available), (45) $19,645 (46) $31,810.

C. D. Mautz, Benton, (47) $17,521 (49) $25,916 (50) $11,834.

W. Frazier, Louisville, (48) $18,210.

C. J. Moritz, Effingham, (48) $17,978 (50) $12,099 (51) $57,480.

Mautz & Oren, Effingham, (48) $17,284 (49) $27,758.

Ozee & Hayes, Mattoon, (49) $28,808.

W. Shank, Wilmington, (52) $10,811.

A. O. McCoy, Mt. Sterling, (53) $19,545. Noted Oct. 19 and 26.

Ia., Des Moines—Paving 7,626 sq.yd. Dean Ave. from 30th to 34th Sts., incl. necessary grading, from Bemis & Schlick, Brown Hotel, $2.34 per sq.yd. for concrete; J. Horrabin Co., 1422 Walnut St., $2.34 per sq.yd. concrete; Wright Constr. Co., Flynn Bldg., $2.95 per sq.yd. sheet asphalt. Engrs. est. $25,000.

Missouri—State Hy. Dept. at div. office Greenfield, opened bids Oct. 20, 4.029 mi. road from Lamar to Springfield, 12 ft., Federal Aid Project 159 A, Dade Co., (1) 15,229 cu.yd. earth excav. (2) 297 cu.yd. rock excav. (3) 3,050 cu.yd. borrow (4) 28,481 sq.yd. specification C gravel pavement, etc., from R. H. Sharp, Reeds Spring, (1) $0.42 per cu.yd. (2) $2 (3) $0.42 (4) $0.50 total $25,360; Carterville Constr. Co., Carterville, (1) $0.46 (2) $2 (3) $0.45 (4) $0.47, $26,098; Johnson & Ridge, Warrensburg, (1) $0.50 (2) $2 (3) $0.30 (4) $0.50, $26,722. Noted Oct. 26.

Missouri—State Hy. Dept. at div. office Ironton, opened bids Oct. 20, 11.26 mi. road from Ironton to Potosi, 12 and 16 ft., Federal Aid Project 107 A, Iron Co., (1) 7,650 lin.ft. grading (2) 13,724 sq.yd. broken stone base course (3) 13,724 sq.yd. bituminous macadam surface course (4) 750 cu.yd. additional rock for shoulders (5)

Streets and Roads (Continued)

70,180 sq.yd. gravel surfacing, from W. M. Campbell Equipment Co., Minneapolis, Minn., (street address not available) (1) $0.12 and $0.12 per cu.yd. (2) $0.90 and $1.10 (3) $0.88 and $0.88 (4) $2.80 and $3.20 (5) $0.35 and $0.35, total $57,136 and $60,173; W. J. Knorpp & J. Richardson, De Soto, (1) $0.183 (2) $0.40 (3) $0.99 (4) $1.60 (5) $0.50, $62,983. Noted Oct. 12.

Missouri—State Hy. Dept., at div. office Platte City, opened bids Oct. 20, 13.687 mi. road on Jefferson Highway, 24 ft., Federal Aid Project 96, Platte Co., (1) 90,773 cu.yd. earth excav. (2) 4,300 cu.yd. rock excav. (3) 13,649 cu.yd. borrow, etc., from Diemer Williamson Constr. Co., Brookfield, (1) $0.30 per cu.yd. (2) $1.80 (3) $0.26, total $54,785; Land Constr. Co., Ballinger Bldg., St. Joseph, (1) $0.298 (2) $1.45 (3) $0.298, $54,979; H. C. Botsford, Tonganoxie, Kan., (1) $0.30 (2) $2 (3) $0.30, $57,447. Noted Oct. 12.

Tex., Ballinger—Runnels Co. grading, scarifying old base and surfacing various main streets, (a) crushed stone base with vitr. brick surface, (b) concrete base with 2 in. hot mix Uvalde rock asphalt (c) concrete base and 2 in. bitulithic concrete (d) concrete base with 2 in. Warrenite bitulithic (e) 7 in. cement concrete pavement, from J. B. Toomey, Ft. Worth, (street address not available) (a) $110,017; Jordan Constr. Co., Plainview, (a) $111,745; Smith Bros., Central State Bank Bldg., Dallas, (a) $116,091, (c) $94,791; Kaw Paving Co., 616 New England Bldg., Topeka, Kan., (a) $118,345, (b) $110,020, (c) $102,369, (d) $108,812. Noted Oct. 5.

Tex., Georgetown—Williamstown Co. surfacing 11.5 mi. State Highway 2-C, between here and Travis Co. line, 16 ft., (a) cold rolled ¾ in. natural rock asphalt, (b) cold rolled 1 in. natural rock asphalt, from W. E. Dozier, 230 Austin Natl. Bank Bldg., Austin, (a) $56,325 (b) $62,282; C. E. Hoff, 220 Linares St., San Antonio, (a) $55,242 (b) $67,157; Smith Bros., 308 Sumpter Bldg., Dallas, (a) $58, 953 (b) $67,658; inverted penetration method (1a) 1 in. limestone filler (1b) 1¼ in. limestone filler (2a) 1 in. limestone and trap rock filler (2b) 1¼ in. limestone and trap rock filler (3a) 1 in. all trap rock filler (3b) 1¼ in. all trap rock filler, from Haden & Austin, Box 1223, Houston (1a) $35,745 (1b) $50,909 (2a) $40,077 (2b) $56,324 (3a) $46,576 (3b) $69,323; Rice & Bates, Austin, (1a) $38,994 (1b) $51,992 (2a) $44,410 (b) $57,408 (3a) $48,743 (3b) $68,240; S. E. Finley & Hannah Constr. Co., Waco, (1a) $34,282 (1b) $51,689 (2a) $40,456 (2b) $57,105 (3a) $47,660 (3b) $68,727.

Tex., Lufkin—Angelina Co., clearing, grading and gravel surfacing 13.54 mi. State Highway 7, between Huntington and Zavalla, 16 ft., 1,292.4 cu.yd. concrete, 49,145 cu.yd. roadway, 51,453 cu.yd. borrow, 107,341 lb. reinforcing, 28,332 cu.yd. gravel surfacing, from J. S. Moore & Sons, Lufkin, $160,356; J. Thompson, San Augustine, $176,108; F. P. McElwrath, Corsicana; $178,924. Engrs. est. $181,540.

Calif., Bakersfield—Improving Oak St., (1) 172,800 sq.ft. grading (2) 129,600 sq.ft. 1½ in. warrenite bitulithic on 4 in. asphaltic concrete (3) 14,400 lin.ft. headers, from Federal Constr. Co., Call Bldg., San Francisco, (1) $0.058 (2) $0.237 (3) $0.16; Thompson Bros., G and Divisadero Sts., Fresno, (1) $0.065 (2) $0.24 (3) $0.15. Noted Oct. 5.

Calif., Fresno—Improving Weldon Ave., (1) 75,830 sq.ft. grading (2) 58,165 ft. asphalt (3) 5,260 ft. concrete gutter, (4) 6,630 ft. cement walks, (5) 1,340 ft. concrete curb, from Thompson Bros., G and Divisadero Sts., (1) $0.57 (2) $0.219 (3) $0.35 (4) $0.225 (5) $0.65; Federal Constr. Co., Call Bldg., San Francisco, (1) $0.059 (2) $0.227 (3) $0.33 (4) $0.23 (5) $0.62; California Road & Street Impvt. Co., Bank of Italy Bldg., (1) $0.066 (2) $0.219 (3) $0.33 (4) $0.23 (5) $0.62.

Calif., Gustine—Opened bids 1210 cu.yd. 5 in. concrete pavement, from Frederickson & Shannon, Cory Bldg., Fresno, $28,190; F. A. Mero, Richmond Roofing Co., 401 16th St., Richmond, $28,890; N. M. Ball, Masonic Bldg., Porterville, $29,701.

Que., Montreal—J. R. Bauset, city clk., opened bids asphalt pavements on (1) Marguerite Bourgeois St. (2) Decastelneau St. (3) Hanatoux St., concrete sidewalks, (4) Hadley St. (5) Hochelaga St. (6) De-Razilly St. (7) Clarke St., from Duranceau & Duranceau, 152 Hamilton St., (1) $11,124 (5) $5,235 (6) $2,456 (7) $2,228; Quinlan, Robertson & Janin, Ltd., 52 Duluth Bldg., (1) $11,738; Sicily Asphaltum Paving Co., 60 St. Viateur St., (2) $7,184 (3) $10,891; B. Brault Ltd., 2855 Rosemound Blvd., (2) $7,576 (3) $11,190; F. Lapan, 601 Lacordaire St., (4) $4,773; Boyd, Rossi & Devito, 409 St. James St., (6) $4,557; A. Kelly, 2310 St. Denis St., (7) $2,493. Noted Oct. 19.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and laying sidewalks on Fresh Pond Rd. and Woodside Ave., to E. Block, Woodhaven, $12,440 and $7,620 respectively. Noted Nov. 2.

N. Y., Rochester—Laying sidewalks and grading Devonshire Court, to J. Passero, Rochester (street address not available) $11,465; paving Clinton Ave. N, bitulithic, to J. Friedrich Co., Inc., Rochester (street address not available) $24,889; Cummings St., asphalt block, to J. Petrossi Co., Rochester (street address not available) $32,167. Noted Aug. 10.

Pa., Phila.—Asphalt pavements on (1) 67th Ave., Luray and 17th St. (2) Annsburry, Delphine, Chew, Gale and Lindley Sts. (3) Landsdowne Ave. (4) Bridge, Bouvier and Clarkson Sts., to Eastern Paving Co., Colonial Trust Bldg., (1) $26,836 (2) $27,912 (3) $40,732; to D. DeLisle, 4842 Lithgow St., (4) $27,062. Noted Nov. 9.

Maryland—State Rds. Comn., Baltimore, grading, draining and surfacing roads, Contr. HO-26, Howard Co., to Thomas, Bennett & Hunter, Westminster, $70,913; Contr. AA-26, Anne Arundel Co., to Taylor & Truman, Sollers, $14,545. Noted Oct. 19.

N. C., Thomasville—Paving various streets, 1½ in. asphalt on 4 in. concrete, also cement concrete sidewalks, to R. G. Lassiter & Co., Citizens Natl. Bank Bldg., Raleigh, $84,000.

S. C., Charleston—Sanitary & Drainage Comn., 39 Broad St., constructing 9.55 mi. road between Tide Water Creek and Atlantic coast line crossing, near Meggets, to Simons & Mayrant, Charleston, (street address not available). $283,000. Noted Sept. 28.

Ga., Atlanta—To McDougald Constr. Co., 419 Healey Bldg., paving Hopkins St. from Lucile Ave. to Louisville & Nashville R.R., Washita St. from Highland to Sinclair Aves., vibrolithic concrete with stone, $2.29 per sq.yd., Boulevard Pl. from Boulevard to Arnold Sts., vibro-stone $2.19 per sq.yd., 4th St. from Peachtree to West Peachtree Sts. Asphalt on present base $1.50, Prado St. from Westminster Dr. to Peachtree Circle, asphalt on present base $1.70; to Jamison & Hallowell, Chandler Bldg., Hill St. from Woodward to Georgia Ave., North Ave. from Goldsboro to Mayson Aves., South Ponce de Leon Ave. from Moreland Ave. to Fairview Rd., vibro-slag $2.12 per sq.yd.

Fla., Homestead—Improving town streets, 44,500 sq.yd. one course broken stone, 17,600 sq.yd. two course broken stone, 20,000 sq.yd. first course for penetration, 1,500 cu.yd. grading, to T. B. McGahey, Miami, $45,068. Noted Nov. 2.

O., Columbus—Grading, curbing and paving 1,174 ft. Chestnut St., asphalt-granite circles, to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $25,478. Noted Nov. 2.

Ia., Ft. Madison—Lee Co. grading 23.55 mi. Primary Rd. Project 149, from Keokuk northwest, 26 ft., to Cameron, Joyce & Co., Keokuk, 236,447 cu.yd. clay excav. $0.249 per cu.yd. Noted Oct. 26.

Ia., Toledo—Tama Co. to J. C. Parquette, 2347 Capitol Ave., Des Moines, grading 15.95 mi. Primary Rd. Project 6, east and west of Tama, 311,344 cu.yd. excav. $0.25 per cu.yd., 6.78 mi. primary road from Gladbrook east, 80,203 cu.yd. loam and clay excav. $0.25 per cu.yd. Noted Oct. 19.

Minn., Grand Marais—Cook Co. grading and bridging 14 mi. State Project 1-05, Federal Aid Project 298, 24 ft., incl. bridges 3900 and 3902 each 30 ft. deck girder, to Campbell Ames Co., 402 Manhattan Bldg., Duluth, $162,000. Noted Oct. 10.

Kan., Garden City—Finney Co., concrete paving 1.356 mi. various roads to M. R. Ammerman, Wichita, 2,595 cu.yd. earth excav. $0.40, 8,350 cu.yd. borrow $0.35, 11,746 sq.yd. 2 course concrete $2.57; etc., total $61,361.

Kan., Hutchinson—Asphalt paving Sherman and Popular Sts., to J. H. Shears & Son, Hutchinson, $48,068.

Kan., Iola—Allen Co. paving 4,046 mi. Fort Scott Wichita Highway, Federal Aid Project 125-A, 18 ft., to L. L. Beye, 1019 South Denver St., Eldorado, 16,000 cu.yd. earth $0.40, 455 cu.yd. borrow $0.50, 333.4 cu.yd. Class A concrete $18.50, 48,255 reinforcing $0.05, 45,360 sq.yd. one course 7 in. concrete $2.30, etc., total $119,739; 90 ft. rainbow concrete arch bridge sta. 52 plus 20, 20 ft. roadway, to Walters & Schermerhorn, 335 cu.yd. dry earth excav. $1.50, 214.9 cu.yd. Class A concrete $23, 19,746 lb. reinforcing steel, $0.05, 16,150 lb. structural steel $0.07, etc., total $9,322.

Kan., Topeka—Shawnee Co., to Ritchie & Ramsey, Topeka, concrete paving, 4.016 mi. road from Meriden Spur to Capitol Highway, Federal Aid Project 86, 6,024 cu.yd. earth excav. $0.75, 43,298 sq.yd. 1 course concrete $2.65, 1,100 lb. reinforcing $0.06, etc., total $121,342, 4.03 mi. Capitol Highway, Federal Aid Project 46, Sect. A, 6,045 cu.yd. earth excav. $0.75, 43,031 sq.yd. 1 course concrete $2.65, etc., total $126,013.

Montana — State Hy. Comn., Helena, grading, gravel surfacing and building structures on 10.64 mi. Belt-Riceville Rd., Federal Aid Project 73, Proposal A, Cascade Co., to White, Brown & Leahy, Ford Bldg., Great Falls, $109,729. Noted Oct. 19.

Missouri—State Hy. Dept., Jefferson City, 5 mi. road from Centreville southward, 24 ft., State Project Route 21, Sect. 24, Reynolds Co., to Coopers Constr. Service Co., St. Louis (street address not available) $33,622. Noted Oct. 12.

Tex., Daingerfield—Morris Co., clearing, grading and gravel surfacing 2.81 mi. State Highway 1, to Standifier & Wood, Royse City, $34,560. Noted Oct. 26.

Tex., Houston—Paving La Branch St. from Texas to Holman Aves., to Smith Bros., Sumpter Bldg., Dallas, 11,000 cu.yd. excav. $0.70, 32,750 sq.yd. 6 in. concrete base $1.40, 13,300 lin.ft. combined curb and gutter $1, 34,250 sq.yd. asphaltic concrete surface $1.60, 34,250 sq.yd. 2 in. bitulithic surface $1.60, 34,250 sq.yd. 2 in. rock asphalt surface $1.70, etc., total $126,943, (170 working days). Noted Oct. 5.

Tex., New Boston—Bowie Co. gravel surfacing 16.81 mi. State Highway 1, Job 19-H, Federal Aid Project 313, to Smith Brothers, Sumpter Bldg., Dallas. $173,525. Noted June 15.

Tex., San Angelo—Tom Green Co., grading, gravel surfacing and bituminous topping 15.41 mi. State Highway 4, 18 ft., 1,375 cu.yd. earth, 2,104 cu.yd. loose and 20,894 cu.yd. solid rock excav. 114,776 gal. asphalt, 5,246 cu.yd. cover material, 20,894 cu.yd. crushed rock, 12,958 cu.yd. gravel, to J. C. Field Co., Denison, $95,864. Engrs. est. $105,450.

Okla., Duncan—Paving Dists. 17, 19 and 20, 33,000 yd. asphaltic concrete, to Western Paving Co., 1 West Chickasaw St., Oklahoma City, $61,691.

Okla., Sayre—For 7,500 yd. concrete paving in Dist. 4, to Pearce Constr. Co., Edmonds, $34,445.

Idaho, Bonners Ferry—Boundary Co., grading and gravel surfacing 10.21 mi. North and South Highway, Federal Aid Project 62, 125,100 cu.yd. earth and 200 cu.yd. rock excav., 14,000 cu.yd. gravel, etc., to Morrison-Knudsen, Railroad and Reclamation Ave., Boise, $91,495 plus 10% for engineering and contingencies.

Utah—State Rd. Comn., Salt Lake City, grading and gravel surfacing 6.962 mi. Sardine Canyon, 18 ft., Federal Aid Project 33, Boxelder Co., to O. Nelson, Arimo Bldg., Logan, 16,935 cu.yd. common excav. at $0.20 per cu.yd., 68,875 cu.yd. unclassified excav. $0.85, 20,100 cu.yd. borrow $0.30, 13,530 cu.yd. surfacing loading, $1.30, 5,700 mi. surfacing hauling, 6,962 mi. surfacing placing, $500, etc., total $104,194; grading and hard surfacing 6.413 mi. road from canal north of Magna to Tooele Co. line, 18 ft., Federal Aid Project 39, Salt Lake Co., to Moran Paving Co., Felt Bldg., Salt Lake Co., 14,800 cu.yd. common excav. at $1 per cu.yd., 6,500 cu.yd. solid rock excav. $2, 13,385 cu.yd. borrow $0.40, 68,725 sq.yd. plain concrete pavement $1.09, etc., total $187,086. Noted Oct. 19.

Calif., Fresno—Improving Thorne Ave. between Belmont and Hedges Sts., to California Road & Street Impvt. Co., Bank of Italy Bldg., $43,521. Noted Nov. 9.

Calif., Fullerton—Surfacing various streets with 3 in. warrenite bitulithic, to Los Angeles Paving Co., 2900 Santa Fe Ave., Los Angeles, $110,000.

Calif., Tracy—Improving portions of East 6th, 6th, West 4th and 4th Sts., to J. E Johnston, Stockton Savings Bank Bldg., Stockton, $47,616. Noted Nov. 9.

Que., Montreal—To Sicily Asphaltum Paving Co., 60 St. Viateur St., asphalt pavements, 8,300 sq.yd. on Casgrain St. $38,242, 2,100 sq.yd. Lacasse St. $11,925; to B. Brault Ltd., 2855 Rosemount Blvd., 6,300 sq.yd. DeChateaubriand St. $35,855, 3,500 sq.yd. Des Erables St. $18,160, 2,066 sq.yd. Bordeaux St. $9,912; to Quinlan, Robertson & Janin, Ltd., 52 Duluth Bldg., 3,643 sq.yd. Regent St. $17,122, 2,600 sq.yd. Belmore St. $13,550; also concrete sidewalks on following on 480 sq.yd. Belmore St. $2,448, 1,172 sq.yd. Regent St. $6,871; to Duranceau & Duranceau, 152 Hamilton St., 1,550 sq.yd. Notre Dame de Grace Ave. $9,550; to Boyd, Rossi & Devito, 409 St. James St., 1,211 sq.yd. Old Orchard Ave. $6,543; to Leger & Lamoureux, 78 Bernard St., 1,250 sq.yd. Laverdure St. $6,688, 4,400 sq.yd. DeLa Roche St. $16,280, 130 sq.yd. Lacasse St. $750, 300 sq.yd. Jeanne Mance St. $1,410; to F. Lapan, 601 Lacordaire St., 1,200 sq.yd. Rosemount Blvd. $4,428 and 1,000 sq.yd. 9th Ave., $3,690; to P. Desantis, 3929 St. Hubert St., 2,000 sq.yd. Laverdure St. $10,975; to Rondou, Corlier & Co., 2506 Christophe Colomb St., 900 sq.yd. St.

Streets and Roads (Continued)

Zotique St. $3,195, 139 sq.yd. Florence St. $535, to A. and R. Billett, 6158 Peloquin St., 175 sq.yd. Perras St. $1,249; to A. Laviolette, 709 Notre Dame St., 1,200 sq. yd. Christophe Colomb St. $4,390; to A. Kelly, 2310 St. Denis St., 430 sq.yd. Bellechasse St. $2,604. Noted Oct. 26.

Ont., Toronto — York Twp., grading Kingston Rd., Contr. 778, 40,000 to 60,000 cu.yd. earth excav. (shovel work) to Dufferin Constr. Co., Brass Bldg., $30,000.

Industrial Works

PROPOSED WORK

Mass., Fitchburg—Lockwood, Greene & Co., engrs., 24 Federal St., Boston, preparing plans and soon take bids 5 story, brick and steel addition to plant, to have 40,000 sq.ft. floor space, here, for Star Worsted Co., Fitchburg.

Mass., Holyoke — Bd. Pub. Wks., City Hall, plans 1 story garage and service station, brick, $80,000.

R. I., East Providence (Providence P. O.) —United Electric Rys. Co., Providence, having plans prepared 1 and 2 story, 170 x 535 ft. car house, concrete, brick and steel, North Bway., here. Private plans.

R. I., Providence—J. T. Avila, 11½ Governor St., plans 1 story, 15 ft. high, garage and repair shop, brick and steel, Hope and East Sts. $40,000. Private plans.

R. I., Providence—Goldberger & Steiner, Olneyville Sq., having plans prepared by G. Wolf, archt., 88 Althea St., 1 story garage, brick, concrete and steel, Library Court. $40,000.

R. I., Providence—W. F. and F. Hussey, 226 Williams St., plan 2 story garage, brick and steel, plain foundation, containing 7,200 sq.ft. floor space, Williams St. $40,000. Private plans.

R. I., Woonsosket—Rhode Island Knitting Co., Jeffers St., plans 2 story mill addition, rein.-con. $50,000. Private plans.

Conn., Hartford — Hartford "Courant," 84 State St., plans 2 story addition to plant. $50,000. I. A. Allen, Jr., Inc., 100 Farmington Ave., archts.

New York—Iroquois Natural Gas Co., Iroquois Bldg., Buffalo, plans gas plants in Arkport, Hanover, Perrysburg and Gowanda.

N. Y., Auburn—Lockwood, Greene & Co., archts. and engrs., 101 Park Ave., New York, soon take bids for new weave shed, machine shop and extensions to dyehouse and power plant, here, for Firth Carpet Co., 62 South Division St. $140,000.

N. Y., Buffalo—Crane & Co., 81 Bway., plans large brick and steel warehouse, Church and 4th Sts. $96,000.

N. Y., Buffalo—Standard Milling Co., c/o A. E. Baxter, engr. Ellicott Sq., having plans prepared flour mill, 30,000 bbl. daily capacity, outer harbor.

N. Y., New York—Natl. Biscuit Co., 85 9th Ave., soon takes bids 3 story, brick, steel and concrete garage and repair shop, plain foundation, 407 West 16th St. $65,000. J. R. Terrance, 85 9th Ave., archt. and engr.

N. Y., Oswego—Oswego Netherland Co. having plans prepared by McCormick Co., Inc., archts., Century Bldg., Pittsburgh, Pa., 1 story, 100 x 365 ft. ice cream plant, brick and concrete. $180,000.

N. Y., Jamestown—Lockwood, Greene & Co., archts. and engrs., Hanna Bldg., Cleveland, O., soon take bids 4 story, 75 x 175 ft. combing and spinning mill, brick, steel and concrete, here, for Jamestown Worsted Mills 335 Harrison St. Noted Sept. 21.

N. J., South River—Plans 50 x 400 ft. and 50 x 100 ft. refrigerator plant, brick and steel. $60,000. Owner's name withheld. Address M. Hammerschlag, c/o Chamber of Commerce.

N. J., Trenton—Castanea Dairy Co., 234 North Broad St., having plans prepared by W. A. Klemann, archt., 1st Natl. Bank Bldg., 3 story, 80 x 80 ft., brick and steel plant, North Broad St. $100,000.

N. J., Trenton—Jointless Fire Brick Co., 1130 Clay St., Chicago, plans 1 story, 72 x 250 ft. plant, New York Ave., here. $75,000.

Pa., Catasqua—Bryden Horse Shoe Co., 1 story, 60 x 198 ft. concrete and steel plant, to Belmont Iron Wks., c/o owner.

Pa., Lickdale—Blue Mountain Electric Co., Bethel, plans electric generating plant at Yost Mill, here. $125,000.

Pa., Lewistown — Penn Central Light & Power Co., 1809 Union Ave., Altoona, plans substation at viscose plant, here.

Pa., Monessen—Monessen Fdry. & Machine Co., plans to rebuild portion of shop recently destroyed by fire. $150,000. Architect not announced.

Pa., Phila.—Ballinger Co., archts., 12th and Chestnut Sts., soon takes bids 2 story and basement, 74 x 194 ft. and 1 story, 141 x 193 ft. rein.-con., brick and steel plant, plain foundation, 56th and Chestnut Sts., for Chilton Publishing Co., 49th and Market Sts. $50,000.

Pa., Phila.—Cold Blast Feather Co., 169 West Berks St., soon takes bids 2 story and basement, 100 x 153 ft. rein.-con., brick and steel factory, plain foundation, Tioga and Jarmey Sts. $70,000. H. R. Stackhouse, 129 South 5th St., archt.

Pa., Pittsburgh—Dusenberry Baking Co. having plans prepared by Rubin & Veshancey, archts., Union Arcade, 3 story and basement, 50 x 100 ft. brick and tile bakery, 3201-15 Forbes St. $100,000.

Pa., Pittsburgh—Studebaker Sales Co., 4724 Baum Blvd., having plans prepared by G. H. Schwan, archt., Peoples Bank Blvd., 2 story, 80 x 100 ft. rein.-con. garage, Baum Blvd. $40,000.

Pa., Scranton—Scranton Lace Co., Glenn St. and Albright Ave., plans new power house. $60,000.

Pa., Washington — H. Robinson, plans 3 story and basement, 65 x 102 ft. garage, rein.-con., steel and stucco on tile, Chestnut St. $40,000. Architect not selected.

Pa., Waynesburg—T. Cochran, Dawson, having plans prepared by H. W. Altman, archt., Fayette Title & Trust Bldg., Uniontown, 2 story and basement, 70 x 90 ft. brick garage, here. $40,000.

W. Va., Huntington—Carbocite Co., c/o S. J. Hyman, Day and Night Bank Bldg., plans 1 story factory. $100,000. Architect not selected.

N. C., Elizabeth City—Crystal Ice Co., having plans prepared by Ophuls & Hill, engrs., 112 West 42nd St., New York City, for improvements and 1 story addition to plant. $100,000.

N. C., Elizabeth City—See "Waterworks."

N. C., Greensboro—See "Miscellaneous" under Statesville.

La., Sterlington—Imperial Oil & Gasoline Products Co., plans large addition to refinery. $150,000.

O., Cleveland—C. C. Deming, 2517 Edgehill Rd., Cleveland Heights, plans 2 story, 60 x 80 ft., brick and steel garage and commercial building, 8120 Carnegie Ave. $40,000. Private plans.

O., Cleveland — International Harvester Co., Harvester Bldg., Chicago, plans 10 story and basement, brick and concrete warehouse and service station, East 55th St. and Julia Ave., here. $300,000. A. Price, c/o owner, archt. and engr.

O., Cleveland Heights (Warrensville P. O.)—See "Buildings."

O., Conneaut—North Eastern Oil & Gas Co., plans artificial gas plant in several units, 2,000,000 cu.ft. daily capacity. F. B. Dunn, pres.

O., Lockwood—Lockwood, Greene & Co., archts. and engrs., 822 Book Bldg., Detroit, Mich., preparing plans and soon take bids 80 x 240 ft. cotton storehouse, 35 ft. high, rein.-con., here, for Stearns & Foster Co., Lockwood. $100,000.

O., Martins Ferry—See "Waterworks."

O., Ravenna—Phillips Body Co., c/o Fisher Body Corp., Cass St. and Boulevard, Detroit, Mich., had plans prepared by Carter-Richards Co., archts., 923 Illuminating Bldg., Cleveland, altering and building 1 story 40 x 100 ft. brick and steel factory addition, here. $40,000.

O., Toledo—Chrevolet Motor Co., General Motors Bldg., Detroit, Mich., had plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., 1 story, 15 ft. high 91 x 450 ft. transmission manufacturing plant, 1 story, 100 x 120 ft. heat treating building and 60 x 90 ft. power house, rein.-con., brick and steel, plain foundations, here.

Ind., Hartford City—Ft. Wayne Corrugated Paper Co., Murray and Barr Sts., Ft. Wayne, plans 1 or 2 story, brick plant. $70,000. Mills, Rhines, Bellman & Nordhoff, Ohio Bldg., Toledo, O., engrs.

Mich., Detroit—Bohn Fdry. Co., Hart Ave., having plans prepared by C. W. Brandt, Archt., 1114 Kresge Bldg., following additions to foundry, 2 story, 37x100 ft., 1 story 170 x 220 ft., 48 x 210 ft. and 55 x 240 ft. rein.-con., brick and steel, plain foundations, also 30 x 400 ft. concrete sand bin, Hart Ave. Cost to exceed $500,000.

Wis., La Crosse—Weisse Mfg. Co., Caledonia and Gillett Sts., plans 2 story, 50 x 100 ft., brick, rein.-con. and steel factory, plain foundation, Gillett St. $50,000. Architect not selected.

Wis., Madison — J. Heilprin Fruit Co., West Mifflin St., plans 2 story, 75 x 150 ft. cold storage warehouse, brick, rein.-con. and steel, plain foundation, Bedford St., $90,000. J. Heilprin, pres. Architect not selected.

Wis., Menomonie—E. V. Johnson plans 1 story and basement, 58 x 176 ft., brick and concrete garage, plain foundation, Main St., recently destroyed by fire. $40,000. Architect not selected.

Ia., Davenport—Linwood Stone and Cement Co., 713 Kahl Bldg., plans cement plant, 2,000 bbl. daily capacity. $1,500,000. Architect not selected.

Kan., Winfield—Stuber Bros. having plans prepared by L. Schmidt & Co., archts., 121 North Market St., Wichita, 1 story, 100 x 140 ft. service and sales building, rein.-con. and brick. $50,000.

Missouri—See "Miscellaneous."

Mo., Kansas City—Kellogg & Mackay Co., 21st and Walnut Sts., having plans prepared by Sunderland & Besecke, archts., 406 Interstate Bldg., and takes bids in about 2 weeks, 5 story and basement, 40 x 100 ft., rein.-con. and brick warehouse, 20th and Walnut Sts. $150,000. W. W. Huff, 314 Interstate Bldg., engr.

Mo., St. Louis—Haynes-Langenberg Mfg. Co., 4045-47 Forest Park Blvd., soon takes bids 3 story, 150 x 200 ft., rein.-con. and steel factory and office building, plain foundation, Kingshighway. G. F. Langenberg, 4045 Forest Park Blvd., archt. C. M. Morton, 4045 Forest Park Blvd., engr.

Mo., St. Louis—Light Development Co. of St. Louis, Ry. Exch. Bldg., having plans prepared for 20,000 k.w. power plant, on Mississippi River. $2,000,000.

Okla., Cement—See "Waterworks."

Okla., Wetumka—See "Waterworks."

Wash., Chelan—Great Northern Ry. Co. Havermale Island, Spokane, having plans prepared by W. A. Wells, archt. and engr., 601 Hyde Bldg., Spokane, ice manufacturing and cold storage plant, here. $400,000-$500,000.

Wash., Tacoma—See "Waterworks."

Ore., Portland—See "Buildings."

Calif., Dinuba—Dinuba Planing Mill plans planing mill, West Tulare St. Cost incl. equipment, $60,000.

Calif., Fresno—Fresno Consumers Ice Co., Mono and P Sts., plans 3 story annex, 90 x 96 ft., Mono St.

Calif., North San Diego—Vitrified Products Co., Spreckels Bldg., San Diego, plans plant near Atchison, Topeka & Santa Fe tracks, here. Cost incl. equipment, $250,000. V. Kraemer, pres.

Calif., San Francisco—Banner Refining Co., Kohl Bldg., having plans prepared by F. G. White, engr. for State Bd. Harbor Comm., Ferry Bldg., refining plant, incl. 2 corrugated iron buildings, oil storage tanks, machinery, etc. $84,000.

Calif., San Francisco—Richard Hellman Inc., 602 Jackson Ave., Long Island City, N. Y., having plans prepared by A. Toriggino, archt., Mills Bldg., 5 story and basement factory, rein.-con., on 75 x 245 ft. site, 20th and Harrison Sts., here. Total, incl. site, $250,000.

Calif., San Francisco—General Mfg. Co., Pacific Bldg., had plans prepared by W. W. Hanscom, archt., 848 Clayton St., 1 story, factory, concrete and frame, San Bruno Ave. $40,000.

Calif., San Francisco—L. R. Lurie, Mills Bldg., having plans prepared by A. S. Bugbee, archt., 26 Montgomery St., 2½ story and basement, 62 x 137 ft. rein.-con. garage, Sacramento St. near Polk St. $54,000.

Ont., Aylmer—J. L. Thayer & Son having plans prepared garage and repair shop. $40,000.

Ont., Toronto — Toronto Motor Car Co. Ltd., 52 Jarvis St., having plans prepared by L. E. Dowling, archt., 167 Yonge St., 3 or 4 story and basement, concrete, brick and steel garage and service station, Jarvis St. $100,000.

B. C., Vancouver—False Creek Lumber Co., 6th Ave. W., having plans prepared lumber mill. $150,000. Private plans.

BIDS DESIRED

N. Y., Rochester—Powertown Tire Corp., 253 East Ave., taking bids 4 story, 40 x 60 ft. addition to service station. $50,000. Hutchinson & Strutz, Cutler Bldg., archts. Noted Aug. 10.

Pa., Phila.—Amer. Ice Co., 6th and Arch Sts., and C. L. Weir, engr., 41 East 42nd St., New York City, receiving bids 2 story, 61 x 80 ft. and 1 story, 21 x 80 ft. rein.-con., brick and steel, plain foundation, Duncannon and Mascher Sts.

Pa., Phila.—Ballinger Co., archts., 12th and Chestnut Sts., taking bids 8 story and basement, 60 x 85 ft. rein.-con., brick and steel plant, plain foundation, 4th and Arch Sts., for Ketterlinus Lithographic Co., 4th and Arch Sts. $250,000.

Pa., Phila.—F. Weber, archt., Norris Bldg., taking bids 8 story and basement,

Industrial Works (Continued)

95 x 180 ft. rein.-con., brick and steel plant, plain foundation, $250,000. Owner's name withheld.

Pa., Phila.—Duffy Bros., 3255 North Front St., receiving bids 1 and 2 story, 64 x 68 x 140 x 180 ft. packing plant, rein.-con., brick and steel, plain foundation. Front and Venango Sts. $75,000. P. Kuhn Eng. Co., 3058 North 8th St., engrs.

Pa., Phila.—Hoffman-Henon Co., archts., Finance Bldg., receiving bids 1 story, 100 x 120 ft. garage, 37th and Walnut Sts., for W. E. Blair, 5945 Chestnut St. $50,000.

Pa., Pittsburgh — Metal and Thermite Corp., 1201 Broadway, New York City, receiving bids 2 story, 40 x 100 ft. factory, brick and steel, Fayette St., here. Private plans.

Pa., Pittsburgh—Dec. 9 by Simmons Co., 824 East Reno Ave., 2 story and basement, 179 x 194 ft. warehouse and assembling plant, brick, concrete and steel, East River Ave. $150,000. Contractor to submit plans.

W. Va., Huntington — Motor Sales Co., 1611 6th Ave., receiving bids 2 story, 90 x 100 ft. garage, brick, tile and steel, 6th Ave. and 12th St. $40,000. Meanor & Handloser, Robson-Prichard Bldg., archts.

O., Cleveland—Brough Co., 3822 St. Clair Ave., taking bids 1 story, 52 x 80 ft. garage and 40 x 70 ft. store, brick and steel, East 72nd St. and St. Clair Ave. $50,000. J. Brugnone, 3505 Woodland Ave., archt. Noted Nov. 2.

O., Cleveland—Double Eagle Bottling Co., 6517 St. Clair Ave., taking bids and opens same about Nov. 17, 2 story and basement, 30 x 60 ft., brick and timber factory. $40,000. F. J. Coghlan, 1782 Alcoy Rd., archt.

Ill., Chicago—T. R. Bishop, archt., 35 South Dearborn St., receiving bids 1 story, 100 x 220 ft., rein.-con., brick and steel garage addition, 4728 Bway., for Reba Bros. $60,000.

Wis., Fond du Lac—B. E. Mehner, archt., Main St., receiving bids 3 story and basement, 42x180 ft., factory and warehouse, brick and timber, plain foundation, Military St., for Combination Door and Screen Co., 180 Ruggles St. $50,000.

Okla., Oklahoma City—New State Ice Co., 2 West 3rd St., will build ice plant, concrete, brick and steel, plain foundation, by separate contracts. $250,000. C. S. Glitsch, c/o owner, in charge. Ophuls & Hill, Inc., 112 West 42nd St., New York City, engrs. and archts.

BIDS RECEIVED

N. Y., Buffalo—Swan Garage Co., Inc., 48 East Swan St., 3 and 4 story, 90 x 115 ft., rein.-con., brick and steel garage, Swan St. from Peckham Constr. Co., Niagara Life Bldg., $84,700; Turner Constr. Co., 11 Goodell St., $86,200; Crooker & Carpenter, Niagara Life Bldg., $87,391. Noted June 22.

CONTRACTS AWARDED

Mass., Charlestown (Boston P. O.)—Stanley-Harlow-Hamlin, Inc., Main St., 1 story, 80 x 100 ft. garage and service station, rein.-con. and brick, plain foundation, Middlesex and Main Sts., to Mulcahy & Graves, 1 Exeter Pl., Cambridge. Archts. est. $40,000.

Mass., New Bedford—F. W. Greene, 888 Purchase St., 1 story, 80 x 110 ft. garage and service station, brick and concrete, plain foundation, Kempton St., to J. W. Bishop Co., 908 Purchase St. Archts. est. $40,000.

Mass., New Bedford — Hathaway Mfg. Co., 3 story, 25 x 40 ft. building, and 1 story 40 x 98 ft. addition to mill, brick and timber, plain foundation, to J. W. Bishop Co., 908 Purchase St. Archts. est. $40,000.

Conn., Bridgeport — Massachusetts Baking Co., Housatonic Ave. and Wells St., 1 and 2 story, 100 x 115 ft. bakery addition, brick, steel and wood, plain foundation, to Hewlett Co., 886 Main St. Archts. est. $75,000.

Conn., Hartford — Frisbie Pie Co., 363 Kossuth St., Bridgeport, 2 story, 90 x 100 ft., bakery and garage, brick and steel, plain foundation, Broad St., here, to Lawrence & Coe Constr. Co., 372 Trumbull St. Archts. est. $50,000-$60,000. Noted Oct. 26.

Conn., New Haven—A. Krah, 122 Mansfield St., 1½ story, 50 x 125 ft. garage and service station, brick and steel, plain foundation. Derby Ave., to Larkin-Carey Co., 166 Brewery St. Archts. est. $40,000.

Conn., Waterbury—Gulf Refining Co., 21 State St., New York City, will build 1 story, 40 x 100 ft. plant, 1 story, 50 x 78 ft. garage, both concrete, 6 oil tanks, etc., Riverside St., here, by day labor. $40,000. Private plans.

N. Y., Brooklyn—St. Marks Realty Co., c/o S. J. Kessler, archt. and engr., 529 Courtland Ave., New York, 2 story, 75 x 130 ft., brick, steel and concrete garage, plain foundation, Atlantic and Grand Aves., here, by day labor. $75,000.

N. Y., Buffalo—Chevrolet Motor Co., 3044 West Grand Blvd., Detroit, Mich., 1 and 2 story, 338 x 900 ft., rein.-con., brick and steel factory with loading platform, plain foundation, East Delavan Ave., here, to J. W. Ferguson, 152 Market St., Paterson, N. J. Noted Oct. 19.

N. Y., New York—Atwell Contg. Co., c/o G. G. Miller, archt. and engr., 1482 Bway., 1 story, 120 x 230 ft. brick, steel and concrete garage, plain foundation, Jerome Ave. and 192nd St., by day labor. $50,000.

N. Y., Rochester—Eastman Kodak Co., 37 x 85 x 119 ft., brick power house, Kodak Park, to Ridge Constr. Co., c/o owner. Archts. est. $85,000.

N. Y., Rochester — M. D. Knowlton, 29 Elizabeth St., brick and steel factory, 19 Elizabeth St., to M. Stallman & Sons, Arlington Bldg. Archts. est. $45,000.

N. J., Atlantic City—S. Abramson, archt., 2315 Walnut St., Phila., 2 story, 85 x 175 ft., rein.-con. and brick warehouse, plain foundation, Baltimore and Atlantic Aves., here, to N. Needleman, Atlantic City (street address not available), for Fleck Bros., 50 North 5th St., Phila. Noted Oct. 19.

N. J., Camden—Camden Pottery Co., Mt. Vernon and Orchard Sts., 2 story, 65 x 140 ft., brick and steel addition for casting shop containing 2 kilns, to E. R. Hall, 34 South 17th St., Phila., $55,000.

Pa., Clearfield—Gingery Hardware Co., 3 story and basement, 50x100 ft. warehouse and planing mill, brick, 4th and Pine Sts., to H. L. Connelly, Clearfield. Archts. est. $40,000.

Pa., Corry—Corry Radiator Corp., 1 story, 120 x 150 ft., steel foundry, to Austin Co., 16112 Euclid Ave., Cleveland, O.

Pa., Juniata—Pennsylvania R.R. Co., Broad St. Sta., Phila., will build 1 story, 340 x 685 ft. locomotive machine and erecting shop. Work will be done by separate contract. Steel contract to McClintic Marshall Co., Oliver Bldg., Pittsburgh. A. C. Shand, ch. engr.

Pa., Phila.—L. J. Kolb, 10th and Reed Sts., 1 story, 175 x 200 ft. rein.-con., brick and steel garage, plain foundation, 1433 Parrish St., to W. G. Uhlers, 1909 McKean St. $44,000.

D. C., Wash—Terminal Refrigerator and Warehouse Co. c/o Washington Market Co., 7th St. and Pennsylvania Ave., cold and dry storage warehouse, to Consolidated Eng. Co., 243 Calvert St., Baltimore, Md., $600,000.

W. Va., Logan—R. E. Matticks, 2 story, 52 x 120 ft., brick, steel and tile, garage to Ward & Ward, Logan. Engrs. est. $40,000. Noted Sept. 7.

O., Cleveland—Willard Storage Battery Co., 246 East 131st St., 1 story, 15 x 300 ft., brick and concrete factory addition, by day labor. $40,000. Private plans.

Mich., Flat Rock—Ford Motor Co., Highland Park (Detroit P. O.)—1 and 2 story, rein.-con., brick and steel plant, to Whitehead & Kales, South Dearborn St., River Rouge.

Ill., Chicago—Goldsmith Bros., 29 East Madison St., 1 story, 124 x 173 ft. factory, rein.-con., brick and steel, 5800-5814 Throop St., to Broline-Nolin Co., 5 North La Salle St. Archts est. $55,000. Noted Nov. 2.

Ill., Chicago—Huguelet Bros., 908 Gary St., 1 story, 68 x 100 ft. addition to garage, rein.-con., brick and steel, to Schmidt Bros., 22 East Huron St. Archts. est. $50,000. Noted Oct. 26.

Wis., Antigo-Langlade Creamery Co. will build 2 story, 50x95 ft. bottling plant, brick and steel, plain foundation, by day labor. $45,000. Private plans.

Wis., Chippewa Falls—Chippewa Valley Auto Co., 16 River St., 2 story, 124x130 ft., garage, rein.-con., brick and steel, to Tschopp, Durchi-Camastral Co., Columbus and High Sts. Archts. est. $75,000. Noted Oct. 26.

Wis., Crandon—Vulcan Last Co., will build 2 story, 60x120 ft. shoe factory, rein.-con., brick and steel, by day labor. Private plans. Noted Oct. 5.

Wis., Green Bay—J. A. Piaskowski, 445 South Jackson St., 1 story, 62 x 165 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, West Main St., to H. J. Selmer Co., McCartney Natl. Bank Bldg. Archts. est. $40,000.

Wis., La Grosse—Bergh Auto Co., 207 South 4th St., 1 story and basement, 60 x 171 ft. garage, rein.-con., brick and steel, King St., to C. W. Noble, 206 State Bank Bldg. Archts. est. $40,000.

Wis., Marinette—C. Anderson & Sons Co., Cook and Merryman Sts., will build 2 story, 50x75 ft. factory and machine shop, rein.-con., brick and steel, plain foundation, Main St. by day labor. Private plans. Archts. est. $75,000. Noted Oct. 19.

Wis., Menomonie—E. V. Johnson will build 1 story, 56 x 176 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, Main St., by day labor, to replace one recently destroyed by fire. $40,000. Private plans.

Wis., Rhinelander—Northern Grain Co. will build 1 story, 50x120 ft. feed mill, rein.-con. and brick, by day labor. Private plans. Archts. est. $40,000.

Minn., Hopkins—Hennepin Co., Sanatorium Comn., general contract 1 story part basement, 12 and 32 ft. high, 45 x 108 ft. power house at Glen Lake near here, from Pehrson Bros., 555 Temple Court, Minneapolis, $229,500; J. Peterson, 2452 10th Ave., S., Minneapolis, $239,500 Pike & Cook 416 South 5th St., Minneapolis, $244,627.

Neb., Fremont—Fremont Mfg. Co., 60 x 84 ft., 112 x 140 ft., 56 x 140 ft. and 40 x 188 ft. refrigerators, incubators, factory and warehouse, all 1 story, steel, saw tooth construction, to Truscon Steel Co., 307 Baird Bldg., Omaha. Archts. est. $50,000.

Mo., St. Louis—Mid West Piping & Supply Co., 1452 South 2nd St., 1 and 2 story and basement, 120 x 138 ft., brick and steel warehouse addition, concrete pile foundation, 2nd and Miller Sts., to J. W. Bright Constr. Co., Arcade Bldg. Archts. est. $60,000-$70,000.

Ark., Stamps—Louisiana & Arkansas Ry. Co., Texarkana, 1 story 160x288 ft. locomotive repair shop, rein.-con., brick and steel, here, to Herman & McCain, Constr. Co., Reigler Bldg., Little Rock, $150,000.

Okla., Tulsa—Dodge Bros. Motor Co., 716 South Boston St., 2 story garage, rein.-con., plain foundation, to Morrow & Sons, Kenny Bldg., $50,000.

Calif., Fresno—W. M. Murphy Motors Co., 1919 Calaveras St., will build 30 x 75 ft. show room, 20 x 80 ft. stock room, 20 x 40 ft. machine shop, 42 x 88 ft. mechanical shop, brick and concrete, Van Ness Ave., by day labor.

Calif., San Francisco—C. C. Miller, 387 Taylor St., 5 story and basement, transfer and storage building, rein.-con., Turk St. near Hyde St., to R. J. H. Forbes, Monadnock Bldg., $75,716.

Calif., San Francisco—A. E. Perley, 240 Duboce Ave., 1 story, 25 ft. high, 60 x 75 ft., concrete garage, 14th St. near Mission St., to Mission Concrete Co., Call Bldg., $75,000.

Ont., Paris—Penmans Ltd., 3 story brick and steel addition to Plant 2 and 1 story addition to Plant 1, to P. H. Secord & Sons, 133 Nelson St., Brantford. Engrs. est. $100,000. Noted Oct. 5.

Ont., Welland—St. Thomas Packing Co., St. Thomas, cold storage plant, here, to W. J. Hickey, 119 Main St., Welland. Engrs. est. $100,000.

Buildings

PROPOSED WORK

Me., Portland—Parish House—State St. Congregational Church, State St., having plans prepared by Cram & Ferguson, archts., 248 Boylston St., Boston, 3 story, brick, stone and steel, State St. $200,000.

Mass., Boston—Apartment—Yarchin & Fluck, c/o Silverman, Brown & Heenan, Archts., 51 Cornhill, having revised plans prepared 5 story, 100 x 110 ft., Audubon Rd. $200,000. Noted Oct. 5.

Mass., Boston—Bank and Office—State Street Exchange, 33 State St., plans 5 story, brick, steel and concrete. State and Congress Sts. Architect not announced.

Mass., Greenfield—School—Holy Trinity Parish plans parochial school, Federal St. $300,000. P. J. Meehan, 133 Main St., pastor. Architect not selected.

Mass., Marion—Club House, etc.—Butlers Point Associates, Beverly Yacht Club, plan club house and golf course. $300,000. Little & Russell, 45 Bromfield St., Boston, archts.

Mass., Roxbury (Boston P. O.)—Hospital—New England Baptist Hospital, 111 Parker Hill, having plans prepared by E. S. Read, archt., 70 Kilby St., hospital on Parker Hill and Fisher Ave. $150,000.

Conn., Hartford — Bank and Office — Phoenix Natl. Bank, Main St., having plans prepared by Dennison & Hirons, archts., 288 Lexington Ave., New York City, 60 x 170 ft., City Hall Sq. $500,000. Noted Nov. 2.

Conn., New Britain—Schools—Bd. of Educ. plans addition to Monroe St. School $115,000; addition to Osgood Hill School $110,000, E. C. Goodwin, chn. Architect not selected.

Conn., Winsted — Hospital — Litchfield County Hospital, plans 3 story addition, Winchester Rd. $150,000. Architect not selected.

N. Y., Binghamton—Club—Y. M. C. A. plans addition, Water St. $300,000. M. J. Corbett, pres. Bd. Trustees.

N. Y., Buffalo—Athletic—Crystal Palace of Buffalo, Inc., c/o Garden Theatre, Pearl and Niagara Sts., plans 4 story, 150 x 350

Buildings (Continued)

ft., rein.-con., brick and steel, incl. 50 x 200 ft. swimming tank, Pearl St. To exceed $500,000.

N. Y., Hicksville—Bank—Bank of Long Island having preliminary plans prepared by W. L. Stoddart, archt. and engr., 9 East 40th St., New York, brick, steel and stone, plain foundation. $250,000.

N. Y. New Rochelle—Club, etc.—Winged Foot Golf Club, c/o C. C. Wendeback, archt., 101 Park Ave., New York, plans brick and stone club, plain foundation, also golf course, here. $500,000.

N. Y., New York—Theatre—Shubert Amusement Co., 225 West 44th St., soon lets contract brick, steel and stone, plain foundation, 46th St. between Bway. and 8th Ave. $200,000. H. J. Krapp, 116 East 15th St., archt. and engr.

N. Y., Rochester — Synagogue — Awihas Achim Anshi Austrian Congregation, 688 Joseph Ave., plans 40 x 100 ft., brick and steel. $150,000. A. Sigel, 1 Widman St., archt.

N. Y., Utica—Theatre, Store and Office—N. Robbins, c/o Avon Theatre, having preliminary plans prepared by E. C. Horn Sons, archts., 1476 Broadway, New York, 6 story, brick, steel and stone, Columbia and Washington Sts. $500,000.

N. J., Somerville—Hospital—Somerville Hospital plans new hospital. $200,000. C. C. Kenyon, 133 West End Ave., chn.

Pa., Beallsville — Clubhouse — Nemacolin Club soon takes bids brick, steel and stone, plain foundation. $150,000. W. L. Stoddart, 9 East 40th St., New York City, archt. and engr. Noted Oct. 19.

Pa., Braddock—Bank—First Natl. Bank had plans prepared by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, brick, steel and stone, plain foundation. $200,000.

Pa., Overbrook (Phila., P. O.)—Apartment-Hotel—Terry & Levy, c/o McKenzie & Wiley, archts., Victory Bldg., soon receive bids 4 story and basement, rein.-con., brick and steel, plain foundation, 69th St. $350,000.

Pa., Phila.—Bank and Office—Fifteenth St. Realty Co., 15th and Chestnut Sts., soon receives bids 24 story and basement, 106 x 207 ft., rein.-con., brick and steel, concrete pile and caisson foundation. $5,000,000. Ritter & Shay, North Amer. Bldg., archts.

Pa., Phila.—High School—Archdiocese of Phila., 19th and Race Sts., having plans prepared by Hoffman-Henon Co., archts., Finance Bldg., 3 story and basement, stone, 49th and Chestnut Sts. $500,000.

Pa., Phila.— Store and Office—Cunningham Piano Co., 1314 Chestnut St., soon takes bids 15 story and basement, rein.-con., brick, steel and stone, concrete pile foundation, 13th and Chestnut Sts. $1,000,000. A. J. Sauer & Co., Denckla Bldg., archts.

Pa., Phila.—Synagogue—Har-Zion Temple c/o L. B. Rothchild, archt., 224 South Broad St., soon receives bids 2 story and basement, rein.-con., brick and steel, plain foundation, 54th and Wynnefield Sts. $250,000.

Pa., Phila.—Theatre and Office—Stanley Co. of America, 1218 Market St., soon takes bids 20 story and basement, stone, Broad and Locust Sts. $2,000,000. Hoffman-Henon Co., Finance Bldg., archts.

Pa., Pittsburgh — Hotel — Apartment—Schenley Apartments Co., 3929 Forbes St., having plans prepared by Rutan, Russell & Wood, archts., Century Bldg., altering and building 10 story and basement addition, brick and tile. $500,000.

Pa., Ridley Park—School and Auditorium—St. Madeline Roman Catholic Church, soon takes bids 2 story and basement, 52 x 69 ft. school and 3 story, 36 x 40 ft. auditorium, rein.-con., brick and steel, plain foundation. $150,000. C. J. Mitcheli, 15 South 21st St., Phila., archt.

Pa., Williamsport — Clubhouse — B. P. O. E. 173, soon takes bids 5 story, 70 x 145 ft. brick and stone, East 4th and State Sts. $260,000. Architect not announced.

D. C., Wash. — Apartment — J. Randall, Woodward Bldg., having plans prepared by H. H. Warwick, archt., 1108 16th St., N. W., for apartment. $175,000.

D. C., Wash. — Club — National Womens Party c/o T. Hastings, acrht., 52 Vanderbilt Ave., New York City, plans club house, here. $300,000.

W. Va., Charleston—Apartment—Kanawha Apartments, c/o Wysong & Jones, archts., Charleston, plan 8 story, 110 x 132 ft., brick and steel, Kanawha St. $650,000.

W. Va., Huntington—Hospital—State Bd. Control, Charleston, takes bids in January, 3 story, rein.-con., brick and steel, Spring Hill. $150,000. J. S. Lakin, pres.

W. Va., Huntington—Hotel—Meanor & Handloser, archts., Robson-Prichard Bldg., takes bids in January, 8 story addition, steel, 4th Ave. and 9th St., for J. S. Farr, 2nd Ave. and 16th St. $340,000.

W. Va., Huntington — School — Voted $800,000 bonds for school.

SUBWAY—FLUSHING, N. Y.

Following are lowest three bids opened Oct. 26, by Transit Comm., 49 Lafayette St., New York City, for constructing Sect. 3 of Route 52, part of Rapid Transit R.R., Flushing Route, (A) Oakdale Contg. Co., Harris and East Aves., Long Island City, (awarded contract); (B) F. L. Cranford, 149 Remsen St., Brooklyn; (C) J. Schlesinger, Inc., 259 West 30th St., New York City. The unit bids were as follows:

	A	B	C
126,550 cu.yd. earth excavation above M.H.W.	$4.40	$5.17	$4.90
12,850 cu.yd. earth excavation below M.H.W.	5.40	5.17	6.50
300 cu.yd. earth excavation above and below M.H.W. for sewers	5.00	5.17	6.00
20,000 cu.yd. disposing of excavated material	.25	.15	.20
Maintaining, Protecting, Securing and Underpinning Buildings			
N. Y. & Queens Electric Light & Power Co. (lump sum)	3,450.00	4,125.00	10,000.00
No. 108, 108½ Amity St. (lump sum)	960.00	2,475.00	1,000.00
No. 104, 104½, 106 Amity St. (lump sum)	2,160.00	1,815.00	1,500.00
No. 100 Amity St. (lump sum)	2,000.00	2,475.00	1,500.00
N. E. corner of Amity and Main Sts. (lump sum)	4,180.00	4,250.00	3,800.00
N. W. corner of Amity and Main Sts. (lump sum)	3,240.00	4,500.00	4,000.00
Two buildings between building next above and No. 86 Amity St. (lump sum)	800.00	2,200.00	1,000.00
No. 86 Amity St. (lump sum)	500.00	1,100.00	500.00
Post Office South Side of Amity St. (lump sum)	1,288.00	1,540.00	1,000.00
Building next west thereof 37 ft. on Amity St. (lump sum)	1,554.00	2,090.00	1,500.00
S. E. corner of Amity and Main Sts. (lump sum)	4,104.00	4,750.00	2,500.00
Buildings which will be on S.W. corner Main and Amity Sts. (lump sum)	5,400.00	6,500.00	6,000.00
105 restoring trees	6.00	10.00	4.00
24,560 cu.yd. concrete masonry in place	14.75	14.44	17.00
75,800 sq.ft. rubbing concrete surface	.05	.10	.12
3,500 cu.yd. protective concrete	14.75	14.44	18.00
10 cu.yd. rubble stone masonry	12.00	9.00	15.00
10 cu.yd. dry rubble masonry	9.00	7.00	10.00
10 cu.yd. brick masonry	34.00	35.00	30.00
10 cu.yd. hollow tile masonry	24.00	32.00	30.00
110 lin.ft. 4½-in. x 13-in. flue lining	1.00	1.25	1.20
10 bbl. grout	6.00	6.00	6.00
15,000 lin.ft. timber piles	.55	1.00	.80
10 M.B.M. timber foundations	85.00	50.00	120.00
12 cu.yd. broken stone	4.50	5.00	5.00
13,740 sq.yd. waterproofing 1 ply	.80	1.00	.60
14,400 sq.yd. waterproofing 3 ply	1.55	1.50	1.50
1,150 sq.yd. waterproofing 6 ply	2.80	2.50	2.40
150 sq.yd. waterproofing dry ply	.50	.75	.60
900 sq.yd. waterproofing, coating of pitch	.35	.25	.30
150 sq.yd. treated felt	1.00	.50	.80
2,000 lb. sheet lead in expansion joints	.18	.40	.25
2,070 cu.yd. waterproofing, brick in asphalt mastic	38.50	40.00	38.00
200 lin.ft. 3-in. C. I. pipe and fittings, class A	.90	1.00	1.20
1,300 lin.ft. 6-in. C. I. pipe and fittings, class C	1.35	1.50	1.00
1,500 lin.ft. 8-in. C.I. pipe and fittings, class A	2.00	2.00	3.00
700 lin.ft. 10-in. C.I. pipe and fittings, class A	3.10	2.50	4.00
50 lin.ft. 3-in. galvanized W.S. pipe	1.50	2.00	1.00
50 lin.ft. 4-in. galvanized W.S. pipe	2.75	2.50	1.50
50 lin.ft. 6-in. galvanized W.S. pipe	3.50	3.00	2.50
28,040 duct ft. tunnel ducts	.20	.18	.20
100 duct ft. railroad ducts	.50	.25	.30
1,760 ton riveted steel	95.00	95.00	95.00
5 ton steel ladders and stairs, etc	190.00	200.00	130.00
950 ton steel beams and shapes	85.00	95.00	84.00
960 ton steel rods and bars	80.00	80.00	80.00
20 ton miscellaneous iron castings except for sewers	110.00	150.00	200.00
2 ton miscellaneous iron castings for sewers	125.00	200.00	220.00
100 lb. special wire forms	.25	.18	.15
2,500 sq.ft. gratings	2.10	3.00	2.40
660 sq.ft. vault lights	2.00	3.00	2.20
780 sq.yd. sidewalk restored	2.80	2.00	2.60
240 sq.yd. repavement asphalt	6.00	4.00	4.00
10 sq.yd. repavement granite block	4.00	4.00	2.50
1,475 sq.ft. sidewalk restored west of Main St.	3.20	3.00	2.70
30 lin.ft. new bluestone curb	2.00	1.50	1.50
50 lin.ft. 8-in. granite	3.00	5.00	3.00
5,000 sq.yd. macadam repavement	3.00	1.75	2.70
2,475 lin.ft. old curb restored	.55	.50	1.50
160 sq.yd. 3-in. concrete finish	1.50	2.25	2.50
7,700 lin.ft. ¾-in. W.S. electric conduit	.30	.40	.22
50 lin.ft. 1¼-in. W.S. electric conduit	.50	.60	.50
1,900 lin.ft. 1-in. W.S. electric conduit	.38	.50	.40
710 c.i. outlet boxes	1.00	1.50	1.25
10 c.i. pull boxes	3.00	5.00	4.00
150 lin.ft. 6-in. c.i. pipe and fittings	1.60	2.50	2.50
175 lin.ft. 3-in. c.i. pipe and fittings	1.20	2.00	1.50
80 lin.ft. 4-in. c.i. pipe and fittings	1.40	2.25	1.80
1,600 lin.ft. 12-in. vitrified pipe sewers	2.40	4.00	2.50
100 lin.ft. 15-in. vitrified pipe sewers	3.80	4.50	3.50
100 lin.ft. 18-in. vitrified pipe sewers	4.00	5.00	4.50
350 lin.ft. 24-in. vitrified pipe sewers	6.00	8.00	5.50
40 tons c.i. sewers (straight)	72.00	90.00	100.00
3 ton c.i. sewers (special)	96.00	125.00	200.00
1,270 lin.ft. 3 ft. 6 in. x 2 ft. 4-in. concrete sewer	13.00	12.00	12.50
250 lin.ft. maintaining electric overhead trolley	9.00	5.00	5.00
500 lin.ft. 4-in. water pipe	1.20	1.00	1.20
260 lin.ft. 6-in. water pipe	1.40	1.50	1.50
800 lin.ft. 8-in. water pipe	2.20	1.50	2.50
130 lin.ft. 12-in. water pipe	3.00	2.00	5.00
10 service water pipe connections	35.00	25.00	30.00
120 lin.ft. 3-in. c.i. gas pipe	.90	1.00	1.40
1,000 lin.ft. 4-in. c.i. gas pipe	1.00	1.00	1.60
260 lin.ft. 6-in. c.i. gas pipe	1.20	1.25	2.00
800 lin.ft. 8-in. c.i. gas pipe	1.80	1.50	3.00
200 lin.ft. 6-in. by passing pipe	2.00	3.00	2.50
200 lin.ft. 8-in. by passing pipe	3.00	4.00	3.00
600 lin.ft. 4-in. by passing pipe	1.90	2.00	2.00
4,000 lin.ft. 3-in. by passing pipe	1.40	1.75	1.50
10 service connection for gas pipe	30.00	20.00	30.00
30 tons new c.i. Hub and Spigot (straight)	78.00	90.00	100.00
5 ton new c.i. Hub & Spigot (special)	120.00	125.00	200.00
2,500 duct ft. electric ducts and conduits	.35	.30	.40
5 service connection for electric ducts	30.00	40.00	30.00
1,000 duct ft. wooden electric ducts	.85	.50	.50
4,000 duct ft. fibre electric ducts	.70	.50	.60
Extended totals	$1,635,951	$1,753,338	$1,795,406

W. Va., Institute — College — State Bd. Control, Charleston, takes bids about Jan. 1, 3 story, brick, stone, concrete and steel. $200,000. H. R. Warne, Masonic Temple, Charleston, archt.

Buildings (Continued)

W. Va., Wheeling—Fraternal—Osiris Temple, A. A. O. N. M. S., plans about 6 story, $600,000. Architect not announced.

W. Va., Wheeling — Schools — Voted $300,000 bonds for addition to high school and new grade schools. Triadelphia Dist.

N. C., Asheville—Hotel—Citizen's Hotel Co., having plans prepared by W. L. Stoddart, archt., 9 East 40th St., New York City, for hotel. $1,000,000.

N. C., Asheville—Hotel—E. W. Grove is interested in company which plans demolishing Battery Park Hotel, leveling Battery Park Hill, and constructing large commercial hotel, etc., Haywood St. $1,000,000.

N. C., Asheville—Store—Letinskys Dept. Store, having plans prepared by W. L. Stoddart, archt. and engr., 9 East 40th St., New York City, 4 story, brick, steel and stone. $400,000.

N. C., Kinston—Schools—City plans to vote on $300,000 bonds in December, constructing and equipping new buildings, and enlarging old schools. M. M. Harper, mayor.

N. C., Winston-Salem — Church — First Baptist Church plans church, 50th and Poplar Sts. $450,000. B. F. Huntley, chn. building com. Architect not announced.

Ga., Atlanta — Hotel—J. McE. Bowman, Biltmore Hotel, 44th St. and Vanderbilt Ave., New York City, had plans prepared by Schultz & Weaver, archts., 17 East 49th St., New York City, for brick, steel and stone, plain foundation, here. $7,000,000.

La., New Orleans—Laboratory—Loyalla University, 6363 St. Charles St., takes bids about Dec. 8, for 4 story, 70 ft. high, 66 x 200 ft., concrete, steel brick and stone. $250,000. P. Torre, Jr., 405 Louisiana Bldg., archt. Noted Aug. 31.

O., Akron—Theatre-Arcade—Akron Enterprise Co., having plans prepared by C. W. and G. L. Rapp, archts., 190 North State St., Chicago, 2 story, South Main St. through to High St. $850,000. C. A. Barbian, pres.

O., Bellaire—High School—Voted $350,000 bonds for new high school, 35th and Guernesy Sts. H. Rodewig, pres. Bd. Educ. Noted Sept. 28.

O., Cleveland — Store and Office — Ever-Ready Brake Lining Co., 305 St. Clair Ave., had plans prepared by H. W. Grieme, archt., 110 Engineers Bldg., 10 story, 60 x 150 ft., brick, steel and concrete, 305 St. Clair Ave. N. E.

O., Cleveland Heights (Warrensville P. O.)—Apartment, etc.—M. Rubin, 604 Marshall Bldg., Cleveland, had plans prepared by A. F. Janowitz, archt., Permanent Bldg., Cleveland, 2 and 3 story and basement, 66 x 126 ft. apartment and 55 x 72 ft. garage, Hampshire Rd., here. $200,000.

O., Columbus—City Hall—City plans to have several architects submit sketches for new city hall on Scioto River site. $500,000-$850,000.

O., Dayton—Clubhouse—Dayton Lodge B. P. O. E., c/o C. L. G. Breene, chn., 301 Amer. Bldg., having plans prepared by Pretzinger & Musselman, archts., 1155 Reibold Bldg., 6 story and basement, 122 x 200 ft., rein.-con., brick and stone. $800,000. Noted April 27.

O., East Cleveland (Cleveland P. O.)—Stores and Apartment—M. Lees, 2099 Lamberton Rd., Cleveland Heights, having plans prepared by A. F. Janowitz, archt., Permanent Bldg., Cleveland, 4 story and basement, 250 x 250 ft., brick, steel and concrete, Euclid and Wymore Aves., here. $1,500,000.

O., Lakewood (Cleveland P. O.)—Apartment—S. Koslen, 1077 East 97th St., Cleveland, having plans prepared by M. Weis, archt., 617 Union Bldg., Cleveland, 3 story and basement, 96 x 124 ft., brick and timber, Lake Ave. near Hird Ave., here. $150,000.

O., Lakewood (Cleveland P. O.)—Store, Theatre and Apartment—W. C. Marshall, pres. Marshall Drug Co., Marshall Bldg., Cleveland, plans 1 and 3 story and basement, brick, steel and concrete, Detroit Ave. and Bunts Rd. $200,000. W. S. Lougee, Marshall Bldg., Cleveland, archt.

O., Martins Ferry—High School—Voted $250,000 bonds for high school annex. Noted July 13.

O., St. Clairsville—Sanitarium—Belmont Co. voted $175,000 bonds for anti-tuberculosis sanitarium.

O., Warren—Bank and Office—Trumbull Savings & Loan Co., 102 High St., having revised plans prepared by Watson Eng. Co., Cook Bldg., Cleveland, 10 story, 40 x 132 ft., brick, steel and concrete. $400,000. Noted June 8.

Mich., Detroit—Apartment—J. Casselman, 679 Peterboro Ave., had plans prepared by Atwood & Trysell, archts., 601 Temple Bldg., 4 story and basement, 50 ft. high, 46 x 176 ft., brcik and steel, plain foundation, Sylvester Ave.. $250,000.

Mich., Detroit—Apartment—R. H. Marr, 2631 Woodward Ave., preparing plans 3 story and basement, 35 ft. high, 50 x 135 ft. brick and steel, plain foundation, Alfred St. $150,000. Owner's name withheld.

Mich., Detroit—Apartment—P. R. Rossello, archt., 406 Congress Bldg., preparing plans 6 story and basement, 87 x 90 ft. rein.-con., brick and stone, plain foundation, Pennsylvania Ave. $275,000. Owner's name withheld.

Mich., Detroit — Apartment — Widre & Rubin, c/o J. I. Weinberg, archt., 401 Congress Bldg., having plans prepared 4 story and basement, 60 x 140 ft. rein.-con., brick and steel, plain foundation, Selden Ave. $175,000.

Mich., Detroit — Theatre and Hotel — L. Smilanski and S. Levy, 1332 Book Bldg., plans 14 story, 166 x 342 ft. rein.-con. stone, brick and steel, Woodward and High Sts. $12,000,000. Architect name withheld.

Mich., Kalamazoo — Dormitory — Kalamazoo College, Lovell St., having plans prepared by A. Kahn, archt., Marquette Bldg., Detroit, 3 story and basement, 48 x 100 ft. brick and timber, concrete pile foundation, Academy Ave. $150,000.

Ill., Chicago—Apartment—R. F. France, archt., 155 North Clark St., soon receives bids 3 story, 100 x 125 ft., rein.-con., brick and steel, Adams St. near Cicero St., for F. A. Johnson, c/o architect. $200,000.

Ill., Chicago—Club—Rebori, Wentworth & Dewey, archts., 332 South Michigan Ave., soon receives bids 4 story and tower, 85 x 156 ft., rein.-con., brick and steel, Dearborn and Schiller Sts., for Racquet Club, c/o architects. $500,000.

Ill., Chicago—Club—Union League Club, Jackson and Federal Sts., plans 20 story, 100 x 150 ft., rein.-con., brick and steel, on site of present building. $3,000,000. Mundie & Jensen, 39 South La Salle St., archts.

Ill., Chicago—Hospital—H. Sierks, archt., 5036 Lincoln Ave., preparing plans and receives bids in spring, 10 story, 60 x 90 ft., rein.-con., brick and steel, Randolph and Market Sts., for Eye, Ear Nose & Throat Hospital, Franklin and Washington Sts. $400,000. W. F. Fisher, pres.

Ill., Chicago—Hotel and Clubhouse—J. R. Thompson, 350 North Clark St., plans 22 story, 70 x 160 ft., rein.-con., brick and steel, Madison and Dearborn Sts. $3,000,000. Architect not announced.

Ill., Chicago—Office—Continental Casualty Co., 910 South Michigan Ave., plans 12 story, 100 x 180 ft., rein.-con., brick and steel, 22nd St. and South Park Ave. $1,600,000. Architect not announced.

Ill., Chicago—Store and Apartment—Rissman & Hirschfield, archts., 155 North Clark St., soon recives bids 3 story, 200 x 200 ft., rein.-con., brick and steel, Central Park and Madison St., for A. Goldstein, c/o architects. $400,000.

Ill., Chicago—Store and Apartment—H. Schlachett, 5400 West Adams St., plans 3 story, 103 x 175 ft., rein.-con., brick and steel, Madison and Mayfield Sts. $150,000. Leichenko & Esser, 38 South Dearborn St., archts.

Wis., Appleton—School—Bd. Educ. plans 3 story and basement, rein.-con., brick and tile. $400,000. Architect not selected. This corrects report in Nov. 2 issue.

Wis., Madison — Chapel — University Methodist Church, Charter and University Aves., having plans prepared by Childs & Smith, archts., 64 Van Buren St., Chicago, 3 story, 60 x 135 ft., stone and steel, plain foundation at University. $150,000.

Wis., Menomonie—Church—Zion Church Assn. having plans prepared by C. Volkman, archt., Eau Claire, 2 story, 50 x 109 ft., brick, rein.-con. and stone plain foundation. $150,000.

Wis., Milwaukee—Business—H. L. Breithaupt, 2 Grand Ave., plans 3 story and basement, 60 x 100 ft., brick and concrete, Grand Ave. $150,000. Architect not selected.

Wis., Oshkosh—Temple—Oshkosh Masonic Lodges, 132 Main St., receiving competitive sketches 4 story and basement, 100 x 100 ft., rein.-con. and brick, plain foundation, Washington Blvd. $500,000.

Ia., Cedar Rapids—Court House and Jail—Linn Co. voted $750,000 bonds for court house and jail, 2nd Ave. and Court St. H. R. Churchill, aud. Noted Nov. 2.

Ia., Mt. Ayr—Court House—Ringgold Co. defeated $160,000 bond issue for court house. Noted Nov. 2.

Neb., Omaha—Club and Office—B. P. O. E., Elks Bldg., having plans prepared by J. and A. McDonald, archts., 204 Standard Oil Bldg., and probably take bids next spring, 10 story, 132 x 132 ft., 18th and Dodge Sts. $500,000.

S. D., Huron — Auditorium and Gymnasium—Huron College takes bids in spring 4 story and basement, rein.-con., brick, stone and tile, on campus. $400,000. C. R. Miller, secy. Architect not announced.

Mo., Columbia—Law Library—Missouri University, Jesse Bldg., plans 3 story, rein.-con. and brick, plain foundation, on campus, $150,000. Jamieson & Spearl, Arcade Bldg., St. Louis, will probably be selected as architects. Engineer not selected.

Mo., Kansas City—Business—North-Mehornay Furniture Co., 11th and McGee Sts., having plans prepared by Keckner & Trask, archts., 719 Gloyd Bldg., 3 story and basement, 38 x 100 ft., rein.-con. and brick, 14th and Main Sts. W. W. Huff, 314 Iuterstate Bldg., structural engr.

Mo., St. Louis—Hotel—D. Israel, Washington Hotel, plans 12 story 140 x 165 ft. hotel for negroes, fireproof construction, caisson foundation, 20th and Chestnut Sts. $800,000.

Mo., St. Louis—Shrine—York Rite Temple Assn. soon takes bids 5 story and basement, 160 ft. high, 150 x 300 ft., rein.-con., brick and steel, caisson foundation, Lindell Blvd. $3,000,000. A. B. Groves, 420 North 4th St. and Eames & Young, Wainwright Bldg., associated archts. and engrs.

Tex., Austin — Biology — State having plans prepared by H. M. Green, archt., North Texas Bldg., Dallas, 1 story, biology building, brick and rein.-con., concrete pile foundation, here. $400,000.

Tex., Dallas—Hospital—Methodist Hospital having plans prepared and takes bids in spring 4 story and basement, rein.-con. and brick, plain foundation, Oak Cliff St. $500,000. R. O. Jameson, 342 South Rosemont St., engr. De Witt & Lemmon, Southwestern Life Bldg., archts. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

Tex., Ft. Worth—Dormitory—Masonic Orphans Home takes bids in April 2 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation. $150,000. H. M. Green Co., North Texas Bldg., Dallas, archts. and engrs.

Tex., Ft. Worth—Office—R. O. Dulaney having plans prepared by R. A. Nicholas, archt., Ft. Worth Natl. Bank Bldg., 10 story and basement, 58 x 95 ft., rein.-con. and tile, plain foundation, Throckmorton and 6th Sts. $400,000.

Tex., Galveston—Office, etc.—State having plans prepared by H. M. Green, archt., North Texas Bldg., Dallas, 2 story office museum, library and heating plant, rein-con. and brick, concrete pile foundation. $600,000.

Tex., Galveston — Schools — School Bd. takes bids about Jan. 1, repairs and additions to 6 schools, $350,000; 2 story concrete, brick and tile, $200,000; 3 story and basement Junior High School, concrete, brick and tile, plain foundation, $450,000. De Witt & Lemmon, Southwestern Life Bldg., Dallas, archt. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt. R. O. Jameson, 342 Rosemont St., Dallas, engr.

Tex., Port Arthur—High School—Bd. Educ. having plans prepared by W. B. Ittner, archt., 911 Locust St., St. Louis, Mo., three or four 1-2 story, concrete and brick buildings, concrete pile foundations. $675.-000.

Tex., San Antonio—Y. M. C. A. plans 6 story, rein.-con. and brick, concrete pile foundation, Pecan and Marys Sts. $400,000. Architect not selected.

Okla., Okmulgee—Hotel—Creek Hotel Co. having plans prepared by Smith & Senter, archts., Okmulgee, 8 story and basement, 100 x 140 ft., rein.-con., brick and terra cotta, 3rd. and Morton Sts. $1,000,000.

Wash., Seattle—Apartment—J. A. Creutzer, archt., Leary Bldg., preparing plans and takes bids in about 5 weeks, 6 story and basement, 124 x 126 ft., brick and terra cotta, 5th and Cherry Sts., for J. Collins Estate, Smith Bldg. $290,000.

Wash., Seattle — Apartment — W. E. Humphrey, Wash., D. C., (street address not available) soon lets contract 5 story and basement, 78 x 108 ft., 2nd and Blanchard Sts., here. $165,000. E. Guenther, Ry. Exch. Bldg., archt. Noted Nov. 2.

Wash., Vancouver—Home—Joint Ownership of Grand Lodges of Washington and Oregon Knights of Pythias, having plans prepared by Knighton & Howell, archts., U. S. Bank Bldg., Portland, Ore., 2 story and basement, concrete, here. $150,000.

Ore., Portland—Office, etc.—Skyline Corp., J. A. Gibson, pres., 801 Pittock Bldg., plans 10 story and 2 story basement, 200 x 200 ft. rein.-con., office building, garage, etc. 5th, 6th, Taylor and Salmon Sts. $2,500,-000. Work will start in spring. Architect not selected.

Calif., Alameda — Hospital — Alameda Sanitarium plans 3 story, rein-con., Clinton Ave. and Willow St. $250,000. K. Creedon, 2054 Clinton Ave., dir. Architect not selected.

Buildings (Continued)

Calif., Fresno—Office and Store—Holland & Holland, having preliminary plans prepared by R. F. Felchlin Co., engrs. and archts., Bank of Italy Bldg., 4 story, annex, L and Fresno Sts. $175,000.

Calif., Madera—Hotel—Company to be incorporated, headed by Madera Chamber of Commerce, plans 4 story and basement, 100 x 150 ft., Yosemite and B Sts. $150,000. K. MacDonald, archt., and M. Couchot, engr., both at 234 Pine St., San Francisco.

Calif., Modesto—College—Modesto Junior College Dist., having plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, college, 10th St. First unit, $80,000, ultimate cost $500,000. W. E. Faught, city supt. of schools.

Calif., Norwalk—High School—Excelsior Union High School Dist. having plans prepared by T. C. Kistner, archt., Central Mortgage Bldg., San Diego, 1 and 2 story, concrete and tile. $275,000 bonds voted.

Calif., Paso Robles—High School—Paso Robles Union High School Dist., having plans prepared by Miller & Warnecke, archts., Perry Bldg., Oakland, and J. J. Donovan, consult. archt., Pacific Bldg., Oakland, group of buildings. $200,000.

Calif., San Diego—College—St. Augustine Fathers, through A. Martel, plan college for boys. $250,000. A. V. Mayrhofer, 1572 2nd St., business agent.

Calif., San Diego—Y. M. C. A. having plans prepared by H. L. Rogers, archt., San Diego, for Army and Navy building. $750,000. Noted July 27.

Calif., San Francisco—Exposition—Corporation of San Francisco Businessman, headed by M. H. De Young, Chronicle Bldg., and supervs. A. Rossi and R. McLeran, San Francisco, plan exposition. First unit $600,000.

Calif., Santa Barbara—High School—Santa Barbara High School Dist. had plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, group of school buildings, one wing containing 9 rooms, another 6 rooms with laboratories, 55 x 92 ft. auditorium, domestic science departments, etc. Will exceed $150,000.

Ont., Hamilton—School—Bd. Educ. having plans prepared by Hutton & Souter, archts., Bank of Hamilton Bldg., 2 story and basement, brick, concrete, steel and tile. $150,000.

Ont., Toronto—Church—Eglington Ave. Presbyterian Church, 53 Glengrove Ave., plans 1 story and basement, rein.-con., brick, steel and stone, Lytton Blvd. $150,000. W. G. Back, pastor. Architect not selected.

Ont., Toronto—Church—St. Clair Ave. Methodist Church, 725 St. Clair Ave., W., plans 1 story and basement, rein.-con., brick and steel, St. Clair Ave. $150,000. W. H. Graham, pastor. Architect not selected.

Ont., Toronto—Hospital—Toronto Hospital for Incurables, Dunn Ave., plans 3 story and basement, rein.-con., brick, stone, steel and tile, Dunn Ave. $200,000. Architect not selected.

Ont., Toronto—School—Bd. Educ. having plans prepared by W. W. Pearse, archt., 155 College St., 2 story and basement, 8 or 10 room, concrete, brick, steel and stone, St. Clair Dist. on Rountree and Turnbull Aves. $160,000.

BIDS DESIRED

Mass., Springfield—Theatre and Store—Schubert Amusement Co., 225 West 44th St., New York City, will build 3 story, 120 x 155 ft., brick, State St., here, by separate contracts. $300,000. H. J. Krapp, 116 East 15th St., New York City, archts.

Conn., New Britain — Hotel — United Hotels Co., 140 Main St., will build 5 story, brick, steel and stone, plain foundation, West Main St., by separate contracts. $500,000. H. L. Stevens Co., 522 5th Ave., New York City, archts. Noted Nov. 9.

N. Y., Mineola—Hospital—Nov. 17, by Nassau Hospital, 5 story, brick, steel and stone addition, plain foundation. $350,000. Lord & Hewlett, 2 West 45th St., New York, archts. and engrs. Noted Nov. 2.

N. Y., New York—Apartment—Arrowhead Building Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., 5 story, 85 x 100 ft., brick, steel and stone, plain foundation, West 151st St. $250,000. Work will be done by separate contracts. H. H. Uhlfelder, pres.

N. Y., Port Washington—School—Dec. 9, by M. C. Mitchell, secy. Bd. Educ. of Union Free School Dist. 4, North Hempstead, new grade school buildings, here. W. B. Bessell, 58 West 49th St., New York, archt.; adv. this issue.

Pa., Allentown—Temple—Dec. 14, by L. G. Schmidt & Co., archts., 154 West Randolph St., Chicago, 7 story, 160 x 225 ft. rein.-con., brick and steel, Linden St., here. $500,000. Owner's name withheld.

Pa., Phila.—Apartment Hotel—Neubauer & Supowitz, archts., 929 Chestnut St., receiving bids 3 story and basement, 56 x 120 ft., rein.-con., brick and steel, plain foundation, 42nd and Baltimore Sts., for E. Zion c/o architects. $200,000.

Pa., Phila.—Bank—N. Hulme, archt., 1524 Chestnut St., taking bids 1 story and basement, 40 x 98 ft. rein.-con., brick and steel, plain foundation, 4826 Baltimore Ave., for Belmont Trust Co. $150,000.

Pa., Phila.—Hospital—P. H. Johnson, archt., 1713 Sansom St., receiving bids 2 story and basement, 71 x 180 ft., rein.-con., brick and steel, 34th and Pine Sts., for Dept. Public Health, City Hall. $250,000.

Pa., Phila. — School — P. Monaghan archt., 128 Chestnut St., taking bids 3 story and basement, 62 x 142 ft. rein.-con., brick and steel, plain foundation, 68th and Landsdowne Aves., for St. Callistas Roman Catholic Church, 68th and Landsdowne Aves. $200,000.

Pa., Williamsport—Office and Administration—Nov. 21, by Williamsport Mirror & Glass Co., c/o R. W. Scott, treas., 647 East 3rd St., and F. A. Rianhard, archt., Masonic Temple, 3 story and basement, 75 x 80 ft. brick, 3rd and Railway Sts.

O., Cleveland—Hotel—J. L. Cameron, archt., 10406 Euclid Ave., taking bids 9 story, 50 x 85 ft., brick, steel and concrete, 633 Huron Rd., for G. Koller, 724 Prospect Ave. $250,000.

Mich., Detroit — Apartment — Varney & Varney, archts., 1422 Washington Blvd., receiving bids and opens same about Nov. 24, 3 story and basement, 90 x 130 ft. brick and steel, plain foundation, Collingwood Ave., for B. Brown, 271 Hendrie Ave. $150,000.

Ill., Chicago — Apartment — Johnston Bros., 109 North Dearborn St., receiving bids 3 story, 110 x 125 ft., rein.-con., brick and steel, 72nd and Bennett Sts. $150,000. L. M. Mitchell, 138 North Dearborn St., archt.

Ill., Chicago—Store and Apartment—H. Sierks, archt., 5036 Lincoln Ave., receiving bids 5 story, 250 x 340 ft., rein.-con., brick and steel, Lincoln and Winnemac Sts., for E. Planer, 2016 West 36th St. $600,000.

Tex., San Antonio—Temple—Nov. 22, by R. H. Cameron, archt., Central Trust Bldg., completing Masonic temple, terra cotta, stone and brick, Ave. E and 4th St. for Scottish Rite, $600,000. W. E. Simpson Co., Natl. Bank of Commerce Bldg., engrs. Steel frame and concrete work completed.

Calif., Bakersfield — Hospital — Dec. 18, (change of date), by Supervs. Kern Co., group of buildings for hospital, brick, stone and terra cotta. To exceed $500,000. C. H. Biggar, Bank of Italy Bldg., archt. Noted Nov. 9.

Calif., Chico—Bank and Office—C. Cole, archt., Waterland-Breslauer Bldg., receiving bids 4 story and basement, brick and concrete, 3rd and Main Sts., for First Natl. Bank of Chico. $175,000. Noted Sept. 21.

Calif., San Francisco—Office—Reid Bros., archts., 105 Montgomery St., receiving bids 15 story addition, 6th and Market Sts., for Western States Life Insurance Co. $800,000.

Ont., Smiths Falls—Church—Nov. 30, by W. A. Woodside, secy. executive com. of Westminster Presbyterian Church, 1 story, 80 x 120 ft. steel and stone. $175,000.

BIDS RECEIVED

N. Y., Buffalo—School—Bd. Educ., 1401 Telephone Bldg., opened bids Nov. 8, general contract School 7, 3 story, 180 x 250 ft., rein.-con., brick, steel and stone, Newburgh St., from Tifft Constr. Co., Iroquois Bldg., $322,800, Eastern Concrete Steel Co., Morgan Bldg., $324,400, C. H. Everitt, 295 Auburn Ave., $336,000; plumbing work, from J. J. Bresnahan, 462 Elk St., $24,974, Batt Co., 955 Michigan Ave., $26,995, Power Efficiency Corp., White Bldg., $28,600; heating and ventilating work, from J. J. Bresnahan, 462 Elk St., $64,974, R. J. Moran, 379 East Utica St., $64,000, J. W. Danforth Co., 70 Ellicott St., $67,926. Noted Nov. 2.

N. J., Trenton—School—Bd. Educ., opened bids Nov. 9, general contract 2 story, 150 x 350 ft., brick and steel school for negroes, North Montgomery St., from Karno-Smith Co., Broad St. Bank Bldg., $448,000, C. J. Smith Co., 202 Academy St., $454,217, De Riso Bros., 17 Bergenline Ave., Union Hill, $474,568; heating and ventilating work, from Deckman Power, Heat & Refrigeration Co., Goff Bldg., Camden, $50,988, W. G. Royer Co., 510 Stuyvesant Ave., $51,224, E. G. Britz & Co. New York City, (street address not available) $52,000; plumbing work, from Trenton Plumbing & Heating Co., Broad and Greenwood Sts., $29,224, Piper Bros., 108 Brunswick Ave., $30,700, W. P. Dunn, Inc., $31,762. Noted Oct. 26.

Pa., Phila.—Schools—Bd. Educ. 18 East Chestnut St., opened bids (1) 3 story and basement, Germantown Ave. and Southampton St., (2) 3 story and basement, 9th and Oregon Aves., (3) 2 story, 3rd and Duncannon Sts., all rein.-con., brick, steel and stone, plain foundations, from Cramp & Co., Denckla Bldg., (1) $428,562 (2) $412,762 (3) $444,297; Ketcham & McQuade, 1716 Sansom St., (1) $437,418; Wark Co., Broad and Walnut Sts., (1) $441,657 (2) $415,875 (3) $460,000; McCloskey & Co. Inc., Richmond and Ontario Sts., (2) $406,666 (3) $457,653. Noted Nov. 2.

Pa., Pittsburgh—School—Bd. Educ., Fulton Bldg., 2 story and basement, 76 x 298 ft. rein.-con., brick and tile addition to Beechwood School, Rockland Ave., general contract from Williams & Haas, Empire Bldg., $349,996, West Bros., 635 Trenton Ave., Wilkinsburg, $359,957, S. M. Siesel, First Natl. Bank Bldg., $371,000; heating and ventilating from Steel City Heating & Plumbing Co., 3612-5th Ave., $36,341, Ryan Heating Co., 53 Tunnel St., $36,620, J. A. Langdon, 2030-5th Ave., $36,744. Noted Oct. 26.

O., Centerville—School—Bd. Educ. of Washington Twp. School Dist., opened bids Nov. 1, general contract 2 story and basement, 60 x 110 ft., rein.-con. and brick, from H. R. Blagg Co., 1229 East 3rd St., Dayton, $89,225; I. F. Weber Co., 809 Commercial Bldg., Dayton, $90,975; F. K. Vaughn Building Co., Hamilton, $98,160. Noted Oct. 12.

O., Cleveland — School — Bd. Educ., East 6th St. and Rockwell Ave., 2 story, 146 x 295 ft., brick, steel and concrete, Jefferson Ave., from A. Dall, 3079 Euclid Heights Blvd., $433,420; F. J. Hohloch, Davis and Farley Bldg., $462,500.

Minn., Minneapolis—Institution—Bethany Home, 3719 Bryant Ave., S., general contract incl. part of foundation for 3 story and basement, 44 ft. high, L shaped, one wing 41 x 142 ft. other 41 x 172 ft., from Madsen Constr. Co., 848 Builders Exch. Bldg., $110,935; Pike & Cook, 416 South 5th St., $112,930; J. A. McDonald Constr. Co., 752 Builders Exch. Bldg., $115,390. Noted Sept. 21.

Kan., Winfield—Gymnasium—Southwestern College, 3 story, 150 x 170 ft., stone, plain foundation, from Gassman Constr. Co., Arkansas City, $152,000; H. I. Ellis Constr. Co., Brosius Bldg., Wichita, $183,427; J. H. Mitchell & Son, Wellington, $189,403. Noted Oct. 26.

Mo., St. Louis—School—Bd. Educ., 9th and Locust Sts., opened bids Nov. 8, (1) Edward Long Grade School, 2 story and basement, 95 x 221 ft., rein.-con. and brick, Morganford Rd. and Walsh St., (2) two, 2 story and basement, 40 x 50 ft. wings to Sumner High School, (3) Cyrus P. Waldbridge Grade School, 2 story and basement, 95 x 221 ft., rein.-con. and brick, Davison and Lillian Aves., (a) building complete excluding plumbing, sewering, gas fitting, heating and ventilating apparatus air washer, heat regulation, electric light wiring, clocks, bells, telephone system and vacuum cleaner (b) heating and ventilating apparatus incl. air washer and heat regulation, from Humes-Deal Co., Century Bldg., (1a) $281,966 (3a) $253,579; Dickey Constr. Co., Syndicate Trust Bldg., (1a) $286,526 (2a) $48,747; Kellerman Contg. Co., Victoria Bldg., (1a) $289,855 (2a) $45,753 (3a) $257,000; E. P. Ambler, 2822 La Salle St., (1b) $35,052 (3b) $35,052; Urbauer-Atwood Heating Co., 1452 South 2nd St., (1b) $35,090 (3b) $35,090; Sodeman Heating & Power Co., 23rd and Morgan Sts., (1b) $35,237 (3b) $35,237; Murch Bros. Contg. Co., Ry. Exch. Bldg., (2a) $47,960; Woerman Constr. Co., Syndicate Trust Bldg., (3a) $256,600. Noted Oct. 19.

CONTRACTS AWARDED

Me., Brunswick—Church—St. John the Baptist Roman Catholic Church, 1 story and basement, 116 x 160 ft., brick, stone and steel, plain foundation, Main St., to F. W. Cunningham & Sons Co., 181 State St., Portland. Archts. est. $250,000.

N. H., Bedford—Clubhouse—Manchester Country Club, Manchaster, 2 story, 65 x 125 ft. with 35 x 55 ft. and 33 x 90 ft. ells, timber and brick, here, to L. H. Shattuck, Inc., 208 Granite St., Manchaster. Archts. est. $150,000.

Mass., Boston—Apartment—Washington Heights Building Corp., 1607 Commonwealth Ave., will build 4 story, brick, steel and concrete, plain foundation, Washington St., by day labor. $150,000. Private plans.

Mass., Gardner—Hotel—Gardner Hotel Co., c/o H. L. Stevens Co., archts. and

Buildings (Continued)

engrs., 522 5th Ave., New York City, will build 5 story, 85 x 100 ft., brick, steel and stone plain foundation Pleasant St. here, by day labor. $250,000. Noted Nov. 2.

Conn., Bridgeport — Y. W. C. A., 263 Golden Hill St., 4 story, 55 x 120 ft., brick, concrete and steel, plain foundation, Park Ave., to W. R. Muirhead, Nichols (Bridgeport P. O.). Archts. est. $150,000. Noted Sept. 21.

Conn., East Haddam—School—Bd. Educ. 2 story, 12 room, brick and steel, plain foundation, in Moodus, to Pieretti Bros., Essex. Archts. est. $150,000. Noted Oct. 12.

N. Y., New York—Apartment—Bway. and 170th St. Holding Corp., c/o D. S. Lang, archt. and engr., 110 West 34th St., 5 story, 85 x 100 ft., brick, steel and stone, plain foundation, 117th St. and Bway., by day labor. $225,000.

N. Y., New York—Apartment—Lygeni Arms, Inc., c/o A. J. Thomas, archt. and engr., 15 East 47th St., will build 9 story, 60 x 85 ft., brick, steel and stone, plain foundation, 47 East 61st St., by day labor. $275,000.

N. Y., Rochester—Bank—J. F. Warner, archt., Granite Bldg., 5 story, 84 x 85 ft., brick and stone, 22-32 State St., to A. W. Hopeman & Sons Co., 569 Lyell Ave., for Natl. Bank of Commerce, 22 State St. Archts. est. $225,000. Noted Aug. 31.

N. Y., Rochester—Nurses' Home—St. Marys Hospital, 68 x 139 ft., 55 ft. high, brick, Genesee St., to Gorsline & Swan Constr. Co., 243 Powers Bldg. Archts. est. $200,000. Noted Dec. 15.

N. Y., Rochester—Y.M.C.A., Gibbs St., masonry contract for 2 story, 130 x 140 ft., brick, Arnett. Blvd. corner of Kenwood Ave. also 2 story, 86 x 120 x 140 ft., brick, Monroe Ave., to Rankin Constr. Co., Rochester (street address not available); carpentry work, to J. Luther & Sons Co., 87 Stillson St. Archts. est. $150,000 each. Noted Oec. 29.

N. J., Jersey City—Y. M. C. A., 2 West 45th St., New York City, 6 story, 114 x 261 ft., brick, steel and stone, Bergen Ave., here, to Edward Corning Co., 145 East 45th St., New York City. Archts. est. $500,000. Noted Oct. 26.

Pa., Phila.—Theatre and Store—Stanley Co., 1214 Market St., 2 story and basement, rein.-con., brick and steel, plain foundation, 64th St. and Saybrook Ave., to P. Haiback Constr. Co., 1261 North 26th St. $154,000. Noted Sept. 14.

Pa., Phila.—Clubhouse—Y. W. C. A., Morris Bldg., 5 story and basement, 32 x 72 ft. and 41 x 49 ft. rein.-con., brick and steel, caisson foundation, Cherry and Lambert Sts., to W. R. Dougherty, 1016 Sansom St., $152,000.

Pa., Pittsburgh—High School—Bd. Educ., Fulton Bldg., 3 story, basement and subbasement, 135 x 160 ft. rein.-con., brick, steel and stone addition, East Carson and 10th Sts., to P. H. Kelly, 1713 Sansom St., Phila., $452,400, heating and ventilating to R. T. Withers, New Castle, $73,826, plumbing to L. B. Buerkle Co., 1160 Penna Ave., $37,791. Noted Oct. 26.

Md., Baltimore — Memorial — State of Maryland and City of Baltimore, 3 story, Indiana limestone, plain foundation, Gay and Fallsway Sts., from Consolidated Eng. Co., Calvert Bldg., $687,000, P. H. Kelly Constr Co., 1713 Sansom St., Phila., Pa., $698,765; G. A. Fuller Co., American Bldg., $708,000. Contract awarded to lowest bidder. Noted Oct. 12.

D. C., Wash.—Office and Church—Bd. Temperance, Prohibition and Public Morals of Methodist Episcopal Church, Westley Bldg., Phila., Pa., 5 story, 129 x 153 ft., rein.-con., brick and steel, plain foundation, Maryland Ave., here, to Boyle-Robertson Constr. Co., Evans Bldg. Archts. est. $500,000. Noted Oct. 12.

Ga., Americus—Church—First Methodist Church 1 story and basement, rein.-con., brick and steel, rock foundation, to E. W. Rawlings, Americus, $150,000.

Fla., Sarasota—Apartment—A. McAnsh, 208 South La Salle St., R. C. Caples, 327 South La Salle St., and associates, all of Chicago, 2 story and basement, 47 x 75 ft. and 75 x 155 ft., rein.-con. and brick, Palm Ave., here, to W. R. Carmen Co., 601 Santiago St., Tampa, cost plus percentage basis. Archts. est. $500,000.

Mich., Marquette—School—State Normal School Bd., general contract 3 story and basement, 64 x 228 ft., rein.-con., brick, steel and tile addition, to Albinson Constr. Co., 300 5th Ave. S., Minneapolis, Minn., $179,000. Noted Oct. 26.

Ill., Chicago—Apartment—E. Doerr, c/o W. P. Doerr archt. 28 East Jackson Blvd., 3 story, 60 x 70 ft., rein-con., brick and steel, 4826 Lake Park Ave., to Turnquist Bros., 217 East 69th Pl. Archts. est. $150,000.

Ill., Chicago—Hotel—R. S. De Goyler, archt., 7 South Dearborn St., 12 story, 107 x 135 ft., rein.-con., brick and steel, Pearson and Seneca Sts., to Paschen Bros., 111 West Washington St. Archts. est. $2,250,000. Owner's name withheld.

Ill., Chicago—Lodge—Fraternal Order of Eagles, 5241 West Madison St., 4 story, 130 x 150 ft., rein.-con., brick and steel, to Great Lakes Constr. Co., 25 East Jackson Blvd. Archts. est. $250,000. Noted Jan. 12.

Ill., Chicago—Office—Chicago Trust Co., 7 West Madison St., 14 story, 90 x 99 ft., rein.-con., brick and steel, Monroe and Clark Sts., to H. Erickson, 139 North Clark St. Archts. est. $1,000,000. Noted Sept. 28.

Ill., Chicago—Store and Office—G. Derte, 4220 North Lincoln Ave., 2 and 3 story, 123 x 248 x 90 x 200 ft., rein.-con., brick and steel, 4224-46 Lincoln Ave., to J. J. Schwarm, 4803 Lincoln Ave. Archts. est. $300,000.

Minn., Chisholm—City Hall—General contract 3 story and basement, 75 x 140 ft., concrete, brick, steel and tile, Main St., to Pfeffer Constr. Co., 412 Torrey Bldg., Duluth, $127,800. Noted Oct. 26.

Mo., Kansas City—School—Bd. Educ., Askew School, 1 and 2 story and basement, 230 x 250 ft., rein.-con., brick and terra cotta, 27th and Topping Aves., to Rosenthal & Co., Ridge Bldg., $233,577.

Tex., Ft. Worth—Dormitory—Masonic Orphans Home general contract 2 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, at Keystone Stop Dallas Interurban, to J. T. Taylor Constr. Co., Burkburnett Bldg., $100,000. Archts. est. $150,000

Tex., Laredo—Hotel—Laredo Hotel Co. 7 story, rein.-con. and brick, caisson foundation, Hidalgo and San Berdo Sts., to Jambers & Tillman, Laredo, $260,000.

Okla., Enid. — Office — American Natl. Bank, 7 story and basement, 50 x 100 ft., brick and steel, plain foundation, to G. Buxton, Enid, $300,000.

Ariz., Phoenix—Depot—Atchison, Topeka & Santa Fe R.R., Kerchoff Bldg., Los Angeles, Calif., and Arizona Eastern R.R., 165 Bway., New York City, union depot, 480 ft. long, here, to R. E. McKee, 1916 Texas St., El Paso, Tex. Archts. est. $850,000. Noted Sept. 28.

Calif., Fresno—Office—Holland & Holland, 2 story and mezzanine, 150 x 191 ft. with 75 x 90 ft. court, L St. near Fresno St., to R. F. Felchlin Co., Bank of Italy Bldg., $160,000. Sun Maid Raisin Growers, Inc., lessee.

Federal Government Work

PROPOSED WORK

N. Y., Buffalo—Superstructure—U. S. Engineer, Federal Bldg., rejected bids stone and concrete superstructure on breakwater in harbor, here. Noted Nov. 8.

Pa., Pittsburgh—Lock Gates—U. S. Engineer, Pittsburgh, plans steel lock gates for Lock 1, Allegheny River.

Del., Wilmington—Bridge—U. S. Engineer Wilmington, plans temporary wooden trestle bridge.

Md., Annapolis—Deferrization Plant—Spec. 4682—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids for deferrization plant for radio station at Naval Academy, here. Noted Nov. 9.

Tenn., Nashville—Barges—U. S. Engineer,, Nashville, plans 5 steel barges.

Tenn., Nashville—Dredge—U. S. Engineer, Nashville, plans 5 steel barges. "Watanga."

Ill., Chicago—Pier Removal, etc.—U. S. Engineer, 1201-537 South Dearborn St., rejected bids opened Oct. 24, for pier removal, dredging, etc., in Calumet Harbor. Noted Sept. 28.

Tex., Galveston—Dredging—U. S. Engineer, Galveston, plans dredging Houston Ship Channel.

Calif., Crescent City—Stone and Breakwater—U. S. Engineer, 240 Montgomery St., San Francisco, plans to purchase stone and construct breakwater, here.

Calif., San Diego—Dredging—U. S. Engineer, 725 Central Bldg., Los Angeles, rejected bids opened Oct. 21, dredging in harbor, here. Noted Oct. 5.

Calif., San Francisco—Dredging, etc.—U. S. Engineer, 240 Montgomery St., dredging and building training wall in Richmond Harbor, here.

BIDS DESIRED

Pa., Altoona—Extension, etc.—Dec. 4 by Treas. Dept., Wash., D. C., extension to building and driveway, and remodeling U. S. Court House and Post Office, here, J. A. Wetmore, acting superv. architect; adv. this issue.

Pa., Phila.—Repairs—Spec. 4748—Dec. 6, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairs to roof, here. Noted Nov. 2.

W. Va., Huntington—Dwellings—Dec. 7 by U. S. Engineer, Huntington, for 2 lockkeepers dwellings at Dam 30, Ohio River near Greenup, Ky.

Miss., Vicksburg — Barges — Dec. 14, at office Mississippi River Comn., 3rd Dist., P. O. Box 404, furnishing steel barges; adv. this issue.

Mich., Detroit — Dredging — Dec. 15, at office U. S. Engineer, Detroit, dredging and rock removal in Livingstone Channel, Detroit River; adv. this issue.

Ill., Rock Island—Steel Barges—Dec. 11, by U. S. Engineer, Rock Island, for 10 steel barges; adv. this issue.

Ia., Knoxville—Hospital—Dec. 12, by Director U. S. Veterans' Bureau, at office Quartermaster General, 2306 Munitions Bldg., Wash., D. C., for Neuro-Psychiatric Hospital, here, complete, incl. water, lighting, heating systems, etc. Noted Sept. 28; adv. this issue.

Tex., Ft. Sam Houston—Hangar—Nov. 25, at office Constructing Quartermaster, for 14 x 66 x 140 ft. steel hangar at Kelly Field, here.

California—Road—Nov. 24, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, grading and building structures on 15.1 mi. Cuyama Rd. in Santa Barbara Natl. Forest, Santa Barbara and San Luis Obispo Counties, 629,100 cu.yd. unclassified excav., 1,759 cu.yd. Class A and 315 cu.yd. Class C concrete, 227,300 lb. reinforcing steel, 1,470 sq.yd. ditch paving, etc. Noted May 11.

California—Road—Nov. 28, by C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, grading and building structures on 10.9 mi. Adin-Adin Summit Natl. Forest Highway, about 28 mi. southwest of Alturas, Modoc Co., $5,750 cu.yd. rock and 56,550 cu.yd. common excav., 63,200 cu.yd. overhaul, 403 cu.yd. Class A, 218 cu.yd. Class B, 122 cu. yd. Class C concrete, 55,500 lb. structural steel, etc. Noted May 11.

Calif., San Diego — Garage, etc. — Spec. 4741—Dec. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., for garage, fence and pavement, here. Noted Oct. 12.

Calif., San Diego—Repairs—Spec. 4751—Bureau Yards & Docks, Navy Dept., Wash., D. C., receiving bids for repairs to coaling wharf, here. Noted Nov. 2.

H. T., Pearl Harbor—Piers—Spec. 4687—Jan. 3 by Bureau Yards & Docks, Navy Dept., Wash., D. C. for two 335 ft. rein.-con. piers, 18 ft. wide, incl. some dredging and filling, here. Noted Nov. 2.

BIDS RECEIVED

Wis., Milwaukee—Piers, etc.—U. S. Engineer, Federal Bldg., completion South Arrow Head pier, removing old timber crib pier and dredging at Racine Harbor, from Greiling Bros., 110 East Walnut St., Green Bay, $134,553; McMullen & Pitz, Manitowoc, $151,008; Great Lakes Dredging & Dock Co., 216 West Water St., $151,771. Noted Oct. 12.

Nevada—Road—C. H. Sweetser, dist. engr., U. S. Bureau Pub. Rds., 881 Mills Bldg., San Francisco, Calif., grading and building structures on Currant Creek Rd. in Nevada Natl. Forest, here, 44.5 acres clearing and grubbing, 3,000 cu.yd. rock and 45,000 cu.yd. earth excav., etc., from Nevada Contg. Co., Fallon, $62,633; Kroft & Bundy, Ogden, Utah, $64,749; T. M. Olney, 358 Vernon St., Oakland, Calif., $66,767. Engrs. est. $42,389. Noted Oct. 19.

CONTRACTS AWARDED

N. H., Portsmouth—Re-Roofing—Spec. 4711—Bureau Yards & Docks, Navy Dept., Wash., D. C., re-roofing marine barracks and boiler house, here, to H. A. Wood, 21 Brewster St., $6,820 (60 days). Noted Oct. 26.

Va., Richmond—Alterations, etc.—Treas. Dept., Wash., D. C., alterations, etc., in U. S. Post Office and Custom House, here, to Garber & Cissel, Inc., Bethlehem, Pa., $44,000. Noted Oct. 5.

Va., Yorktown — Standpipe, etc.—Spec. 4609—Bureau Yards & Docks, Navy Dept., Wash., D. C., standpipe and piping at Navy Mine Depot, here, to Penn Bridge Co., Beaver Falls, Pa., $29,480 (150 days). Noted Nov. 9.

Federal Government Work (Continued)

N. C., Cape Hatteras (Hatteras P. O.)—Extension, etc.—Spec. 4706—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to barracks and painting. Naval Radio Station, here, to H. M. Lucas, 115 Bruce St., Portsmouth, Va., $3,719 (60 days). Noted Nov. 2.

Ill., Chicago—Breakwater—U. S. Engineer, 537 South Dearborn St., concrete caisson breakwater at Indiana Harbor, Ind., to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., $126,679. Noted Oct. 12.

Minn., Rochester — Extension to Workroom, etc.—Treas. Dept., Wash., D. C. extension to workroom, etc., in U. S. Post Office, here, to Pearce Bros., Inc., 220 West 42nd St., New York City, $13,781 (4 months). Noted Oct. 5.

N. D., Fargo — Extension, etc. — Treas. Dept., Wash., D. C., extension to workroom and mailing vestibule U. S. Post Office, here, to W. D. Lovell, 1415 8th St., S. E. Minneapolis, Minn., $11,530. (90 days). Noted Oct. 19.

Ore., Portland—Dike—U. S. Engineer, 2nd Dist., dike in Columbia River at Martin Island Bar, to A. Burcham, St. Helens, $22,533.

Calif., San Jose—Extension—Treas. Dept., Wash., D. C., extension to building and driveway United States Post Office, here, to J. Morton, 217 Balboa Bldg., San Francisco, $14,193 (120 days). Noted Oct. 19.

Miscellaneous

PROPOSED WORK

Parks, Etc.—Boston, Mass.—Park Dept. had plans prepared constructing park and playground in northeasterly portion of Back Bay Fens, $50,000; extension and improvement of Franklin Park, $100,000. A. A. Shurtleff, 89 State St., landscape archt.

Golf Course—Marion, Mass.—See "Buildings."

Park Development—Rockville, Conn. — Park Comn. plans to develop and lay out new Fox Hill Park. $25,000. Private plans.

Golf Course—New Rochelle, N. Y.—See "Buildings."

Transmission Line—Springville, N. Y.—Niagara, Lockport & Ontario Power Co., Buffalo, c/o F. Fox, Springville, plans high power transmission line from here to Wellsville and Olean to follow route of old Wellsville & Buffalo R.R. to exceed $50,000.

Wharf—Burlington, N. J.—See "Waterworks."

Playground—Cape May, N. J.—Plans to issue $25,000 bonds to purchase site and erect playground on Park Blvd.

Transmission Line—Titusville, Pa.—Titusville Light & Power Co., plans high tension transmission line from here to Hydetown and Pleasantville, also additional lines in and around Titusville, factory district.

Suburban Development—Asheville, N. C.—An Asheville concern (name not available), plans sub-division of Kimberly property into 65 resident lots, grading, constructing water, sewer and gas lines, sidewalks and streets, located at intersection of Merimon Ave. and Edgewood Rd. $100,000. C. H. Neal, Asheville, engr.

Suburban Development—Greensboro, N. C.—Guilford Insurance & Realty Co. plans sub-division of J. T. Moorehead property near extension of West Market St., incl. grading, paving streets sidewalks, water and sewerage systems. $1,000,000. C. L. Grubbs, Greensboro, pres.

Transmission Lines, Etc. — Statesville, N. C.—Southern Power Co., 432 South Church St., Charlotte, plans extending transmission lines from Lookout Shoals, near here to Winston-Salem, Greensboro and High Point; also switching station near four mile post on Southern Ry. near Greensboro. $1,000,000. W. S. Lee, 433 East Morehead St., Charlotte, engr.

Cables, etc.——Cleveland, O.—Plans to expend $40,000 for cables and accessories, $15,000 for ducts, manholes and underground equipment, $55,000 for transformers, poles and wire equipment, $65,000 for labor and engineering. G. Beckwith, City Hall, engr.

Asphalt Plant—Dayton, O.—Plans to purchase new asphalt plant of 1,500 sq.yd. daily capacity. $12,000. I. E. Houk, city engr.

Park-Grandview Heights, O. — Voted $29,500 bonds to purchase and beautify land for park purposes.

Retaining Wall—Des Moines, Ia.—Soon receives bids for 180 ft. rein.-con. retaining wall, 40 ft. high, along east bank Des Moines River, north of University Ave. $25,000. K. C. Kastberg, city engr.

Gas Reservoir—Duluth, Minn.—Water and Light Dept., plans steel gas reservoir, 1,000,000 cu.ft. capacity, 34th Ave. E. E. K. Coe, City Hall, engr.

Transmission Lines, etc.—Missouri—U. S. Pub. Serv. Co., Ry. Exch. Bldg., St. Louis, having plans prepared extending transmission lines 15 mi. in southeast Missouri, 40 mi. in Texas and several miles near Mitchell, S. D., $125,000; enlarging various power plants, $200,000; extensions and equipments for same, $200,000. Above amounts are part of $1,100,000 bond issue recently disposed of by U. S. Pub. Serv. Co. Balance of proceeds were used to reimburse the Light & Development Co. of St. Louis, Ry. Exch. Bldg., for moneys expended in extending lines, etc. controlled by company. These companies are inter-related, the U. S. being sort of financing company, although it does not control all of plants owned by Light & Development Co.

Harbor and Terminal Facilities—Corpus Christi, Tex.—Corpus Christi Navigation Dist. Nueces Co., voted $1,000,000 for harbor and terminal facilities. C. J. Howard, city engr. Noted Oct. 19.

Retaining Wall—Seattle, Wash.—Associated Oil Co. soon takes bids concrete retaining wall at 1747 Railroad Ave. S. $75,000.

Transmission Line—Tacoma, Wash.—See "Waterworks."

Tractor—Bakersfield, Calif.—City Council plans to purchase tractor for use of street department. Not to exceed $5,000. W. D. Clarke, city engr.

Terminal, etc.—Oakland, Calif.—Southern Pacific Co., 65 Market St., San Francisco, purchased 300 acres waterfront land for port terminal and industrial purposes. G. W. Boschke, ch. engr.

Levees—Riverside, Calif.—Palo Verde Joint Levee Dist., Palo Verde Valley, lying in Riverside and Imperial Counties, voted $371,378 bonds and soon receives bids reconstructing levees, destroyed by flood, and for other flood-protection work.

Electric Lighting and Power System—Brodhagen, Ont.—Logan Twp. plans electric lighting and power distribution system. $40,000. Bylaw will probably be voted on in January. L. G. Rock, member Twp. Council.

Drilling—Camperdown, Ont.—Canada Oil & Gas Ltd., plans extensive drilling. $50,000.

Eliminating Grade Crossings—Kitchener, Ont.—Grand Trunk Ry., McGill St., Montreal, Que., plans to elevate tracks and build 7 subways, between Strange and Lancaster Sts., here. City Council instructed S. Shupe, city engr., to prepare report on land damages, etc. $1,000,000. F. L. C. Bond, ch. engr.

Transmission Line, etc.—Port Burwell, Ont.—Plans 13,000-volt transmission line from Tillsonburg, also distribution plant. $60,000. G. A. Vanorder, chn.

Eliminating Grade Crossings — Toronto, Ont.—Plans eliminating grade crossings on Bloor St. W. at Wallace, Royce and St. Clair Aves., $300,000. R. C. Harris, city engr.

BIDS DESIRED

Gate Valves, etc.—New York, N. Y.—Dec. 5, by Bd. Water Supply, Municipal Bldg., furnishing and delivering gate valves and hydrants for Mt. Prospect, Park Slope, Ft. Hamilton and Clove conduits and Narrows Siphon 2 of Catskill Aqueduct, Contr. 213. J. G. Gillespie, pres.; adv. this issue.

Dock—Newark, N. J.—Nov. 27, at office of T. L. Raymond, dir. Dept. Streets & Pub. Impvts., City Hall, 1,000 ft. relieving platform type of marginal dock, at Port Newark Terminal; adv. this issue.

Railings and Stairs—Phila., Pa.—Nov. 28, by F. Caven, dir. of Pub. Wks., City Hall, installing 37,800 ft. metal railings and stairs in North East sewage disposal plant. $75,000. C. A. Allen, City Hall, engr.

Retaining Walls—Phila., Pa.—Nov. 28 by F. H. Caven, dir. Pub. Wks., City Hall, retaining walls along Winghocking Creek. $25,000. J. A. Vogelson, City Hall, engr.

Crane—Baltimore, Md. — D. C. Elphinstone, 488 Continental Bldg., in market for crane, 75 ft. beam, electrically operated, capable of handling 2 yd. clamshell on 60 ft. radius.

Crane—New Cumberland, W. Va.—Cutler Steel Co., Bowman Bldg., Pittsburgh, Pa., in market 10 ton crane for plant, here.

Locomotive Crane—Wheeling, W. Va.—Wheeling Steel Corp., Wheeling Steel Bldg., in market locomotive crane.

Flume—New Smyrna, Fla.—Nov. 21, by City Comn., constructing flume or storm water culvert. P. P. Pilcher, city mgr.; adv. this issue.

Lumber—New Orleans, La.—Nov. 23 by Bd. Port Comrs., Court Bldg., furnishing 127,000 ft. untreated yellow pine, also quantity of creosoted piling.

Crane—Dayton, O.—Advance Fdry. Co., Parnell St., taking bids 15 ton electric crane.

Foundation—Milwaukee, Wis.—R. Messmer & Bros., archts., 221 Grand Ave., taking bids on concrete foundation for 9 story and basement, 110 x 145 ft., brick and concrete, Juneau Pl., for Milwaukee Elks Lodge., 448 Jefferson St. Total cost $1,000,000. Noted Aug. 17, under Buildings.

Traveling Crane—San Francisco, Calif.—Dec. 6, by city and San Francisco Co., furnishing and delivering electric traveling crane for Moccasin Creek Power Plant, Contr. 70, Hetch Hetchy Water Supply. W. J. Fitzgerald, secy.

BIDS RECEIVED

Sea Walls — Gloucester, Mass. — Dept. Pub. Wks., State House, Boston, opened bids Oct. 13, 1008 ft. granite faced concrete seawall, 47 ft. concrete seawall, 76 ft. granite seawall, here, from Bay State Dredging and Contg. Co., 62 Condor St., East Boston, $54,630, G. T. Rendle, Condor St., East Boston, $62,790, J. Williams Co., Gloucester, $64,800. Noted Oct. 5.

Column Foundations—New York, N. Y.—Transit Comn., 49 Lafayette St., opened bids Nov. 10, column foundations for part of Rapid Transit R.R., Flushing Route, from Gustin Morris Co., Creek St. and Anabel Pl., Long Island City, $91,000; Necaro Contg. Co., 97 Court St., Brooklyn, $102,822; C. Meads Co., 217 West 14th St., $104,280. Noted Nov. 2.

Structural Steel—New Orleans, La.—Bd. Port Comrs., New Court Bldg., structural steel for sacking plant at grain elevator, from St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, Mo., $30,205; Virginia Bridge & Iron Co., Maison Blanche Bldg., $30,668; Nashville Bridge Co., Shelby Ave., Nashville, Tenn., $30,902. Noted Oct. 19.

Spillway Gates—Turlock, Calif.—Dirs. Turlock and Modesto Irrigation Dist., furnishing, fabricating and delivering spillway gates for Don Pedro Dam. Schedules 1, 2, 3, 4 and 5, from Union Constr. & Dry Dock Co., Key Route Basin, Oakland, $59,465; Kyle & Co., 648 Call Bldg., San Francisco, $61,643; Bethlehem Shipbuilding Corp., Ltd., 20th and Illinois Sts., San Francisco, $62,478.

CONTRACTS AWARDED

Dock—New Haven, Conn.—New England Steamship Co., Bridge St., will rebuild dock on Bridge St., wood and steel, by day labor. $30,000. Private plans.

Dock System — Jacksonville, Fla. — Constructing 2,933 lin.ft. bulkhead wall necessary to the constructing of new pier, 1,000 ft. long, 350 ft. wide, incl. placing of (3,442 ton steel sheet piling and fabricated master piles, already purchased from Lackawanna Steel Co.) and furnishing and placing 275,480 lin.ft. wood piling and 655,000 ft. lumber in construction of wooden relieving platform, to J. A. Kidd, Realty Bldg., $102,420. Noted Oct. 19.

Collier—Birmingham, Ala.—Consolidated Coal Iron Co., constructing collier, 110 ft. long, 35 ft. beam, equipped with 90 ft. tower, and hull, hourly capacity of 200 ton, to Johnson Iron Wks., Algiers, La., $50,000.

Grade Separation — Milwaukee, Wis. — Grade separation of 8th Ave., etc., to M. E. White Co., 133 West Washington St., Chicago, $49,975. Noted Nov. 2.

Passenger Liner—Seattle, Wash.—Alaska Steamship Co., Pier 2, 365 ft. twin screw passenger liner, 49 ft. beam, 26 ft. deep, with speed of 16 knots, to Todd Drydock & Constr. Co., Hylebos Waterway, Tacoma, $1,000,000.

Concrete Pipe—Delhi, Calif.—Division of Land Settlement (State of California), laying 68 mi. concrete pipe, to T. Cogo, 715 L St., Fresno, $33,138. Noted Nov. 9.

Underground Conduits—Stratford, Ont.—Bell Telephone Co., Albert St., will build underground conduits in various streets, by day labor. $50,000. Noted Nov. 2.

Car Barn and Station—York Mills, Ont.—Ontario Hydro Comn., Hydro Bldg., Toronto, 2 story, 40 x 60 ft. car barn and station, etc., concrete, brick and stone, general contract to Sullivan & Fried, 81 Victoria St., Toronto, $50,000, stone to Nicholson & Curtis, 1117 Yonge St., Toronto, electrical work to Richardson & Cross, 81 King St., East.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

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OFFICIAL PROPOSALS

Bids: Nov. 21.

Storm Water Culvert

New Smyrna, Fla.

Sealed bids will be received by the City Commission of New Smyrna, Florida, at 11 o'clock, Tuesday, the 21st day of November, 1922, at the office of the City Manager at the City Hall, for the construction of a flume or storm water culvert, to be located along the north side of Canal Street where the present open canal is located between Myrtle Street and the river just east of Hillsborough Street.

The length of the structure to be constructed is approximately 3,000 ft. and 9 ft. wide, and the principal items of work are as follows:

2,500 sq.yds. reinforced concrete slabs.
7,400 cu.yds. concrete walls.

An alternate design provides for a circular storm water culvert 7 feet in diameter to be built of plain concrete.

Plans and specifications will be on file at the office of the City Manager at the City Hall in New Smyrna on or after noon, the 14th day of November, 1922.

Cash or certified check for $2,500.00, made payable to the city of New Smyrna, Florida, must accompany each bid as evidence of good faith and as a guarantee that if awarded the contract, the bidder will execute the contract and give bond as required.

Each bidder will be required to furnish with his bid a "cete" from a surety company, licensed to do business in Florida, stating that the surety company will furnish the bond required in case the bidder is successful in securing the contract. Bond will be required in the sum of 25 per cent. of the total estimate of cost.

The right is reserved to reject any or all bids. P. P. PILCHER, City Manager.

Bids: Dec. 12.

Motor Driven Water Works Pumps

Wheeling, W. Va.

Sealed proposals for the design, construction, erection and putting in operation of three (3) low service and three (3) high service motor driven, centrifugal pumping engines in units of 10, 15 and 20 million gallons, will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the reutrn of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

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OFFICIAL PROPOSALS

Bids: Nov. 24.

High School

Yonkers, N. Y.

The Board of Education will receive proposals for the erection of the Charles E. Gorton High School, on Palisade Avenue and Shonnard Place, Yonkers, New York, (excepting Heating, Plumbing and Electrical work).

Plans and specifications will be ready for inspection in the office of the Board of Education in the High School Building, November 3rd. A deposit of $15 for each set taken from the office will be required. Plans may be taken by general contractors only.

Proposals must be made on blank forms which will be furnished at the office of the Board.

The building must be complete in every respect and ready for occupancy December 1st, 1923.

Inasmuch as the work specified is to be devoted to public use, time is of the essence of the contract, and for failure of the contractor to fully complete the same on or before the time specified, the sum of Twenty-five Dollars a day will be deducted from the contract price, as liquidated damages, for each day that shall elapse until the final completion of the contract.

Each proposal must be accompanied by a certified check, payable to the Board of Education for five per cent of the amount of such proposal, which will be retained by the Board until a satisfactory bond is filed and the contract executed. All other checks will be returned to the bidders as soon as the proposals are opened, and the result of the competition declared.

The bidder to whom the contract may be awarded will be required to furnish a security bond for one-quarter of the contract price named in his bid, and a liability policy from companies approved by the Board. Each proposal must be inclosed in a securely sealed envelope, endorsed with the name of the bidder and the work for which the proposal is made, and must be delivered to the Secretary of the Board on or before 5:00 o'clock p.m., Friday, November 24th, 1922.

The Board reserves the right to reject any and all proposals.

EDWARD A. FITCH,
Chairman.
ROSCOE S. CONKLING.
JOHN W. BURKE.
Committee on Architecture and Construction

OFFICIAL PROPOSALS

Bids: Nov. 21.

Road Grading

Newton, N. J.

Notice is hereby given that sealed bids will be received by The County of Sussex for grading of Fredon Stillwater Road in the Township of Fredon and the County of Sussex. Estimated amount of excavation required is 34,865 cu.yd. and opened and read in public at the Freeholders Office, Newton, N. J., on November 21, 1922, at 11:30 a.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Newton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and addres of bidder and name of road on the outside, addressed to The County of Sussex, Newton, N. J., and must be accompanied by a Surety Company Certificate and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

By order of The County of Sussex.
(Signed) WILLIAM S. VOUGHT, Clerk.

Bids: Nov. 25.

Reservoir Dam

Bluefield, W. Va.

Sealed proposals or bids for the construction of a clay or earthern dam, containing about 40,000 cubic yards of material, to be sluiced into place, will be received at the office of the Bluefield Water Works & Improvement Company, at Bluefield, West Virginia, until three o'clock p.m. on the 25th day of November, 1922, when they will be publicly opened and read. All proposals shall be enclosed in an envelope furnished by the above styled company and shall be accompanied by a certified check on some national bank, in the sum of five (5%) per cent of the amount of the proposed bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of thirty-five (35%) per cent of the amount of the contract, within thirty days after official notice of the award of contract and in accordance with the terms of the specifications. The right is reserved to reject any or all bids. Drawings, specifications and blank forms of proposals may be consulted at the office of company, 601 Princeton Avenue, Bluefield, West Virginia, or they will be forwarded by mail upon request if $4 accompanies the order. This amount will be refunded upon return of the Plans and Specifications in reasonably good order.

BLUEFIELD WATER WORKS & IMPROVEMENT COMPANY
WM. McCARTHY, Superintendent.
November 8th, 1922.

OFFICIAL PROPOSALS

Bids: Nov. 27.

Water Works and Sewerage Improvements

Kings Mountain, N. C.

Sealed proposals will be received by the Board of Commissioners of the town of Kings Mountain, North Carolina until 12 o'clock M., Monday, November 27, 1922, for making water works and sewerage improvements.

The work includes: Construction of a 500,000-gallon reinforced concrete reservoir; small pumping station of reinforced concrete and brickwork; reinforced concrete sewage sedimentation tank; furnishing and laying two (2) miles of water mains six (6) to fourteen (14) inches in diameter, with accessories; building two (2) miles of sewers, and furnishing eight (8) inch and ten (10) inch sewer pipe.

The principal quantities involved are:
900 cu.yd. of earth excavation for structures.
170 cu.yd. of 1-1½-3 concrete.
255 cu.yd. 1-2-4 concrete.
47,000 lb. reinforcing steel.
2,100 lin.ft. fourteen (14) inch water mains.
6,470 lin.ft. twelve (12) inch water mains.
460 lin.ft. ten (10) inch water mains.
2,700 lin.ft. six (6) inch water mains.
6,200 lin.ft. eight (8) inch sewer mains.
1,650 lin.ft. ten (10) inch sewer mains.
40 valves and hydrants.

Plans will be on file and may be seen at the office of the Town Clerk, Kings Mountain, N. C., and at the office of The Ludlow Engineers, Winston-Salem, N. C., after November 10, 1922.

For the convenience of prospective bidders, the engineers will furnish copies of the plans upon application accompanied by a check for $10 to cover the cost, or separate prints will be furnished at $1 each.

Each bid must be accompanied by a certified check in the sum of $2,500, or 5 per cent of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

W. H. McGINNISS, Mayor.
GEO. E. LOVELL, Sec. and Treas.
THE LUDLOW ENGINEERS.
Winston-Salem, N. C.,
J. L. Ludlow, Consulting Engineer.

Bids: Nov. 21.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., on Tuesday, November 21, 1922, for the improvement of highways in the following counties:

CHAUTAUQUA .....(one highway: 4.25)
COLUMBIA.....(one highway: 4.27)
NASSAU.....(one highway: 0.24)
ORANGE.....(one highway: 1.90)
SARATOGA.....(one highway: 1.33)
SUFFOLK.....(one highway: 0.24)
OTSEGO.....(one highway: 7.20)
WAYNE.....(one highway: 2.24)

Also for the reconstruction of the following:
MONTGOMERY.....(two contracts: 1.50 & 2.50)
ONONDAGA.....(one contract: 2.04)
ORANGE.....(two contracts: 1.43 & 1.74)
TOMPKINS.....(one contract: 1.99)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or reconstructed. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

OFFICIAL PROPOSALS

Bids: Dec. 1.

Cast Iron Pipe and Castings

San Juan, Porto Rico.

Sealed proposals for the furnishing of about 20,020 tons of cast iron pipe and of 250 tons of special castings, or its equivalent in steel pipe and specials, delivered at San Juan, Porto Rico, for the City of San Juan, will be received in the office of the Commissioner of Public Service until December 1, 1922, at 10 a.m.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

A Bonding Company's Suggestion to Official Proposal Advertisers

"A large part of our contract bond business is submitted to us by wire, and I am a constant reader of the Official Proposals in order to find out the size and nature of the work that is referred to in the bond application. Very frequently I am unable to get any clear idea of what the advertisers are asking bids on, and of course the prospective bidder or contractor is also at a loss to know what kind of a job is being advertised.

"Traveling expenses are heavy at the present time, and contractors pay out considerable sums during the course of a year in investigating prospective contracts. This of course is a large charge that the owners eventually pay, and anything that will reduce the general overhead of contract work will eventually be to the advantage of the owner.

"One way to reduce this overhead is to word the advertisement so that the contractor sitting in his office will know whether or not he should investigate and prepare a bid on the proposed work."

Bids: Dec. 11.

Labor-Material Percentage Contract

New Orleans, La.

Sealed proposals will be received at the Sewerage and Water Board, Room 401, No. 526 Carondelet Street, New Orleans, La., up to 12 o'clock noon of Monday, December 11th, 1922, on Labor-Material Percentage Contract for year 1923.

Specifications and blank forms of proposal may be obtained at the office of the Board.

The right is reserved to reject any or all bids.

October 12th, 1922.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.

OFFICIAL PROPOSALS

Bids: Dec. 8.

Bridge Superstructure, Machinery and Electrical Equipment

Seattle, Wash.

Sealed proposals will be received by the Board of Public Works of the City of Seattle, up to 10 o'clock a.m., Friday December 8, 1922, in room 234, County-City Building, for the fabrication and erection of the Super-structure, Machinery and Electrical Equipment of a Steel Bascule Bridge and two Side Spans over the West Waterway at West Spokane Street, under authority of Ordinance No. 43397.

The structure will comprise a double-leaf bascule span 288 feet center to center of trunions, 2 approach spans each about 140 feet long and a steel girder span about 136 feet long. The width of the bascule span will be 45 feet center to center of trusses and of the side spans 52 feet center to center of trusses, and of the girder span about 40 feet.

No proposal will be considered, except as same is made strictly in conformity with the advertisement therefor and upon the forms of proposals furnished by the Board of Public Works, bound together with the specifications, general clauses and form of contract which must be submitted unbroken and unaltered in every particular.

This improvement shall be made in accordance with the respective plans and specifications now on file in the offices of the Secretary of the Board of Public Works and the City Engineers, respectively, and in acordance with plans prepared by the Strauss Bascule Bridge Company, which will also be available at the above offices. Bidders must make proposals on both the City of Seattle plans and the Strauss Bascule Bridge Company's plans.

The successful bidder will be required to file with the City Comptroller a bond in the sum specified in the specifications.

Each bid must be accompanied by money, a satisfactory surety company bid bond approved by the Mayor and City Comptroller as to sufficiency and the Corporation Counsel as to form, or a certified check payable to the order of the City Comptroller of the City of Seattle for a sum not less than five (5) per cent of the total amount of bid, and no bid will be considered unless so accompanied.

A deposit of Twenty-five Dollars ($25.00) will be required for each set of plans and specifications, which will be returned upon return of the plans in good order.

Special attention of bidders is called to the State Law and City Charter regarding the number of hours constituting a day's work, minimum wage scale, American citizenship and heads of families.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.
C. B. BAGLEY,
Secretary.

First publication June 20, 1922.

Bids: Dec. 12.

Engines and Boilers

Wheeling, W. Va.

Sealed proposals for the design, construction, erection, putting in operation and testing of two (2) engine driven centrifugal low service pumping engines; one turbine driven centrifugal high service pumping engine, three (3) 350 hp. boilers with stokers and the dismantling, moving and re-erecting of the existing Allis-Chalmers pumping engine will be received by the city of Wheeling, W. Va., until 12 o'clock noon, Eastern Standard Time, on the 12th day of December, 1922, and will then be opened and read publicly.

Official proposal blanks, instructions to bidders, specifications, form of contract and bond may be seen at the office of the City Clerk, Wheeling, W. Va., or two (2) copies of each may be obtained by bona fide bidders upon application to The J. N. Chester Engineers, Pittsburgh, Pa., or to the city of Wheeling, W. Va., upon deposit of twenty-five dollars ($25.00), which amount will be refunded to bidders on receipt of a bona fide bid or upon the return of both copies in good order.

The right is reserved to reject any or all bids.

C. H. DOWLER,
City Manager.

Attest:
W. M. EVANS,
City Clerk.

OFFICIAL PROPOSALS

Bids: Dec 5.

Bridge

Cape May, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Cape May, for the construction of a bridge across Grassy Sound Channel, including Strauss Bascule Draw Span, Cresoted Timber Trestle and Abutments with Graveled Approaches on Sand Fill, on the line of the North Wildwood to Burleigh Road in Middle Township, Cape May County, N. J., and opened and read in public at Cape May Court House, Cape May County, N. J., on Tuesday, December 5th, 1922, at 12 o'clock noon.

Drawings, specifications and forms of bid, contracts and bond for the proposed work, prepared by R. Fendall Smith, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Marmora, Cape May County, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings, by the Engineer on proper notice, and a deposit of $25.00, which will be refunded upon the return of the Plans and Specifications in good condition.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of Bridge and road on the outside, addressed to The Board of Chosen Freeholders of the County of Cape May, N. J., and must be accompanied by a Certificate from a Surety Company and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the place and the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders, of the County of Cape May, N.J.

IRVING FITCH, Clerk.

Sea Isle City, N. J.

OFFICIAL PROPOSALS

Bids: Nov. 27.

Marginal Dock

Newark, N. J.

Sealed proposals will be received from 10:00 to 10:15 a.m. on Monday, November 27, 1922, at the office of the Director of the Department of Streets and Public Improvement on the second floor of the City Hall, Newark, N. J., and then publicly opened and read for the construction of a relieving platform type of marginal dock approximately 1,000 feet long at Pork Newark Terminal.

Approximate Quantities:

Piling

Short and Long Leaf Yellow Pine	114,240 lin.ft.
White Oak	10,080 lin.ft.

Squared Timber

Southern Yellow Pine	731,268 B.M.
White Oak	25,050 B.M.

Rip-Rap

Rip-Rap	14,000 tons

Concrete

1:2:4 (course aggregate)	1,715 cu.yds.
1:2:4 (small aggregate	160 cu.yds.

Reinforcement

1-inch Rods	24,000 lbs.
Triangle Mesh-Style No. 049	3,000 lbs.

Dock Hardware

Bitts (New York Dock Standard)	7
Cleats (New York Dock Standard)	30
Mooring Posts (N.Y. Dock Standard)	4

Bids must be made upon blanks to be furnished by the Department.

Plans and specifications and proposal blanks may be obtained at the office of the Bureau of Docks, room 205 City Hall.

Terms of proposal and surety required are fixed by the specifications.

The contract will be awarded to the lowest responsible bidder, the right being reserved to reject any and all bids or waive informalities therein, and to award contracts for the whole or any part thereof.

By direction of the Board of Commissioners of The City of Newark.

THOMAS L. RAYMOND,
Director, Department of Streets and Public Improvements.

OFFICIAL PROPOSALS

Bids: Dec. 6.

Bridge

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth for the Reconstruction of Grand Avenue Bridge, No. N-14, over Sunset Lake; consisting of three forty foot spans and thirty foot roadway, and opened and read in public at the rooms of said board, Court House, Freehold, New Jersey, on December 6th, 1922, at 11.00 a.m.

Drawings and specifications for the proposed work, prepared by George K. Allen, Jr., County Engineer, have been filed in the office of said Engineer at 60 Broad street, Red Bank, New Jersey, and may be inspected by prospective bidders during business hours. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineer.

Plans and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00), which amount will be refunded upon return of plans and specifications before the time specified for the opening of bids.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work, payable to the order of the County Treasurer and a surety company certificate stating that said surety company will provide the bidder with the required bond, and must be delivered at the place and before the hour above named.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BYRANT B. NEWCOMB, Director.
Attest: CHAS. E. COLE, Clerk.
Freehold, N. J., November 8th, 1922.

Engineering News-Record

(Circulation over 30,000 weekly)

prints more than twice as many announcements advertising contracts to be let than appear in any other one publication

Practically every form of public work and the furnishing of material and supplies were printed in the Official Proposal Columns of *Engineering News-Record* last year. They include calls for bids on:

Boilers
Bridges
Building Alterations
Canal Construction
Cast Iron Pipe
Dams
Drainage
Dredging
Engines
Excavation
Filling
Filtration Plants
Generators
Heating and Ventilating
Highway Construction
Paving
Pumps
Pumping Plants
River and Harbor Improvements
Road Oil
Road Building Equipment
Schools and Public Buildings
Sewage Disposal Plants
Sewers
Street Improvements
Street Lighting Systems
Supplies and Material
Water Works
Well Drilling, Etc.

THIS wide use of *Engineering News-Record's* Official Proposal Columns and the rapidly growing recognition of this paper's value as an advertising medium is due to RESULTS—keen competition, lower bids, better work—and savings.

For more than 40 years contractors, manufacturers, and dealers everywhere have consulted the Official Proposal Columns of *Engineering News-Record* and its predecessors for opportunities for business. Today, many of those interested in bidding on contracts for work, material, and supplies depend entirely upon the advertisements that appear in this dominant paper and would be unlikely to see those printed elsewhere.

The Dominant Proposal Medium

OFFICIAL PROPOSALS

Bids: Nov. 29.

Delaware River Bridge Main Towers
Contract No. 6

Philadelphia, Pa.

Sealed proposals for the construction of the two Main Towers of the bridge over the Delaware River connecting the City of Philadelphia, Pa., and the City of Camden, N. J., will be received by the Delaware River Bridge Joint Commission at Room 806, Widener Building, Philadelphia, Pa., until 3:00 o'clock P.M. Eastern Standard Time, November 29, 1922, when they will be publicly opened and read. The contract will be awarded, or all bids rejected, within fourteen days after the bids are opened. The right is reserved to reject any or all bids.

The two piers on which the towers are to be erected are located in the Delaware River near the pier head lines on the Pennsylvania and New Jersey sides of the river at points approximately opposite to Race Street in Philadelphia and Pearl Street in Camden. The work will include the furnishing, fabricating, painting and erecting of the two steel towers complete, with top saddle castings, as shown in the contract drawings, ready to receive the cables. The work comprises approximately 9,500 tons of steelwork, and must be completed within a period of fifteen months.

Bids must be made upon the blank proposal form, which, together with specifications, bond and contract form, and conoffice of the Joint Commission upon tract drawings, may be obtained at the deposit of $25, which deposit will be refunded upon the receipt of bid or upon their return in good condition.

Each proposal must be accompanied by a certified check for seventy-five thousand dollars, drawn upon a national or state bank or trust company having an office either in Philadelphia or Camden, and payable to the Delaware River Bridge Joint Commission, and sureties' consent must be shown. The bidder or bidders to whom the concract is awarded will be required to give bond in the sum of fifty per cent of the amount of the concract.

WILLIAM C. SPROUL, Chairman,
JOSEPH K. COSTELLO, Secretary,
DELAWARE RIVER BRIDGE JOINT COMMISSION

Bids: Nov. 28.

Highway Work

Montpelier, Vt.

Sealed **Bids** will be received by the office of the Commissioner of Highways, Montpelier, Vermont, until 2 p.m. November 28, 1922, and then publicly opened and read, for the construction of 1.16 miles of bituminous macadam road in Highgate, Vermont; and 4.78 miles of gravel road in Danville, Vermont.

Plans and specifications for each of the above may be seen at the office of the State Engineer at Montpelier, Vermont. Plans and specifications for the Highgate Project may be seen at the residence of Mr. Rupert A. Phelps, Highgate Springs, Vermont, and for the Danville Project at the Town Clerk's Office, Danville, Vermont.

Bidders should satisfy themselves before bidding as to the character of the work and the obstacles to be encountered. The estimated quantities are not guaranteed, but are given as a basis for the comparison of bids.

A certified check for $1,500 on the Highgate Project and $4,000 on the Danville Project, payable to the State Highway Board, must accompany each bid.

The right is reserved to reject any or all bids.

By Order of the State Highway Board.
THURMAN W. DIX,
Commissioner of Highways.

Dated Nov. 6, 1922.

Bids: Dec. 7.

Sewerage Extensions

Athol, Mass.

Sealed proposals for the construction of sewerage extensions in Athol, Mass., will be received by the Sewer Commissioners until noon on Thursday, Dec. 7th, 1922, at the office of the Selectmen, in Athol, and will then and there by publicly opened and read by them.

The proposed work consists of approximately 12,000 feet of 8-inch pipe sewer, 2,100 feet of 10-inch pipe sewer and 4,200 feet of 12-inch pipe sewer, including 50 manholes.

The work is to be completed by October 1st, 1923.

Plans, specifications and blank forms of proposal may be obtained at the Selectman's office, Athol, Mass. A deposit of $5.00 will be required for plans furnished, and will be refunded on their return.

The proposal must be made on one of the blank forms provided and must be accompanied by a certified check for $500.00.

The amount of bond for faithful performance, to be furnished when the contract is executed, will be the amount of the contract.

The sewer Commissioners reserve the right to reject any or all bids.

Athol, Mass., Nov. 8, 1922.
By order of the Sewer Commissioners,
BURTON T. HALE, Clerk.

Contractors Everywhere Read These Advertisements

to see where bids are desired on contracts suited to their available plant and organization. The suggestion is therefore made to advertisers that they word their advertisements so that the contractor will get a good idea of the size and kind of work to be let, and perhaps the plant needed. This should result in an increased number of desirable bidders.

Bids: Dec. 5.

Gate-Valves and Hydrants Contract 213

New York, N. Y.

Sealed bids will be received by the Board of Water Supply, at its offices, twenty-second floor, Municipal Building, Park Row, Center and Chambers streets, New York City, until 11 a.m., Eastern Standard time, on Tuesday, December 5, 1922, for Contract 213, for furnishing and delivering gate-valves and hydrants for the Mt. Prospect, Park Slone, Fort Hamilton and Clove conduits and Narrows Siphon No. 2 of the Catskill aqueduct, all as set forth in the specifications. All deliveries shall be made, with all transportation charges prepaid, at designated storage yards within the limits of the City of New York.

At the above place and time the bids will be publicly opened and read. Pamphlets containing information for bidders, forms of bid and contract, specifications, contract drawings, etc., can be obtained at the office of the Secretary at the above address, by depositing the sum of ten dollars ($10) in cash or its equivalent for each pamphlet. For further particulars apply to the office of the Chief Engineer at the above address.

GEORGE J. GILLESPIE,
President,
JAMES P. SINNOTT,
PHILIP F. DONOHUE,
Commissioners, Board of Water Supply.
BENJ. F. EINBIGLER, Secretary.

Bids: Dec. 9.

School Buildings

Port Washington, N. Y.

Separate sealed proposals will be received by Mollie C. Mitchell, Secretary of the Board of Education of Union Free School District No. Four (4), Town of North Hempstead, Nassau County, New York, until 2.30 o'clock P.M., on December 9th, 1922, for the construction of the new grade school buildings in said District, Port Washington, Nassau County, New York, under the following separate headings:

A—Estimate for General Construction.
B—Estimate for Heating and Ventilating.
C—Estimate for Plumbing.
D—Estimate for Electrical Work.

The proposals will be opend, in public, by the Board of Education, at the Board rooms, in the High School Building, in said District, on Saturday, December 9th 1922, at 3 o'clock, P.M., and the Board reserves the right to reject any or all bids if they deem it for the best interests of the District so to do.

The amount of security that will be required, is 50% of the amount of the contract, same to be secured by individual or surety company bonds, satisfactory to the Board, in that amount to be filed at the time of signing of the contract or contracts.

Each bid or estimate shall state the name, place of business or residence of each of the persons making the same and the names of all persons interested with the bidder or bidders therein.

No bid or estimate will be considered, unless accompanied by either a certified check, upon a National or New York State Bank, drawn to the order of Harry Brown, as Treasurer of said District, or cash, in the amount of 5% of the amount of the bid, submitted in the manner and under the terms, set forth in the specifications herein referred to.

For particulars, as to the nature of the work, required, bidders are referred to the drawings and specifications at the office of the architect, Wesley Sherwood Bessell, 58 West 49th Street, Boro of Manhattan, New York City, N. Y.

A deposit of $50.00 will be required from each person or persons applying for such drawings and specifications, which deposit, less cost of prints, will be refunded upon the return of such drawings, and specifications, in good condition, to the office, from which they are obtained.

Dated, Port Washington, N. Y., Nov. 17th, 1922.

MOLLIE C. MITCHELL,
Secretary of The Board of Education, of Union Free School District No. Four (4) Town of North Hempstead, Nassau County, New York.

Bids: Nov. 29.

Filtration Plant and Reservoir

San Juan, Porto Rico.

Sealed proposals for the furnishing of all labor and material for the construction of a 8,000,000 gals. filtration plant and a 10,500,000 gals. filtered water concrete reservoir for the City of San Juan will be received in the office of the Commissioner of Public Service until November 29, 1922, at 10 A.M.

All plans, specifications, instruction to bidders, blanks, forms for proposals and all other information may be obtained at the office of the City Commissioner of Public Works at San Juan, Porto Rico.

The right is reserved to reject any and all bids.

MARTIN TRAVIESO,
Commissioner of Public Service.

If you and I could sit down and talk **Contract Bonds** and **Compensation Insurance** for just 30 minutes your troubles along that line would be over and I'd have a new client.

SWART
92 William St., New York

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS

An Ætna bond is a virtual guarantee that the contractor is efficient, financially responsible, honest and fair.

ÆTNA CASUALTY AND SURETY COMPANY
HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: Nov. 27.

12,000,000 Gallons Pumping Engine

Norfolk, Va.

Sealed proposals will be received at the Office of the Director of Public Works, City of Norfolk, Virginia, until 12:00 o'clock noon on the 27th day of November, 1922, for one 12,000,000 Horizontal, Cross Compound, Crank and Fly Wheel, Condensing Pumping Engine of the double opposed type.

Instructions to Bidders, Form of Proposal, Specifications, Contract and Form of Bond may be inspected, at the Office of the Director of Public Works, Norfolk, Virginia, or at the Office of the Consulting Engineer, Dabney H. Maury, 1445 Monadnock Block, Chicago, Ill., and a complete set of all of the above papers may be obtained by intending bidders either from the Director of Public Works or from the Consulting Engineer, upon application accompanied by a check or Postal Order for Fifteen ($15.00) dollars, payable to B. Gray Tunstall, City Treasurer, which amount will be refunded to the party depositing it on the return of all the foregoing papers in good order.

A certified check on an approved bank either in the City of Norfolk, or in the City of New York, or in the City of Chicago, in the sum of $500.00, and payable to B. Gray Tunstall, City Treasurer, must accompany each bid, subject to the conditions expressed in the Instructions to Bidders and Form of Proposal.

The City of Norfolk reserves the right to reject any or all bids.

WALTER H. TAYLOR, 3rd.
Director of Public Works.

Bids: Nov. 27.

Pumps and Chain Drive

Saranac Lake, N. Y.

Sealed bids will be received by the Sewer and Water Board of the Village of Saranac Lake, N. Y., until 8:00 o'clock p.m., on Monday, November 27, 1922, for furnishing two 3,000,000 gallon horizontal double-acting duplex plunger type pumps and also, at the same time, bids for furnishing a chain drive equipment for each pump, separate bids will be received for the pumps and the chain drive.

Forms of proposal, contract and specifications will be furnished upon application to S. A. Miller, Clerk of the Sewer and Water Board, or to John L. Collins, Engineer.

A certified check to the amount of $1,500.00, drawn payable to S. A. Miller, Clerk, must accompany the bids for pumps and to the amount of $50.00 with the bids for chain drive.

The Board reserves the right to reject any or all bids.

S. A. MILLER,
Clerk of the Board.
JOHN L. COLLINS,
Consulting Engineer.

Bids: Nov. 27.

Road Work

Gainesville, Fla.

Sealed proposals addressed to the Board of Trustees, Special Road and Bridge District No. 1, Alachua County, Florida, will be received by the Board at its office in the Alachua County Court House in Gainesville, Fla., until 11:00 o'clock a.m., Monday, November 27, 1922, for surface treatment on the following roads: Gainesville Archer Road, approximately 80,000 square yards scarifying and reshaping old rock base, approximately 80,000 square yards surface treatment; Gainesville Fairbanks Waldo Road, approximately 150,000 square yards surface treatment.

Specifications and proposal forms may be secured at the office of the District Engineer, Room 7, Baird Bldg., Gainesville, Fla., at five dollars ($5.00) per set. Each bid must be accompanied with a certified check on an Alachua County Bank, or proposal bond executed by a reputable bonding company authorized to do business in the state of Florida, in the amount of 5 per cent of the contract price, made payable to the Chairman of the Board of Bond Trustees.

The Board reserves the right to reject any or all bids, or to award the work in one or more contracts.

W. R. THOMAS,
Chairman.
ALVA B. GROSS,
District Engineer.

U. S. GOVERNMENT

PROPOSALS FOR LEVEE WORK. — Office of the Secretary, Mississippi River Commission, 1311 International Life Building, St. Louis, Mo.—Sealed proposals will be received here until 11 a.m., Nov. 23, 1922, for constructing about 170,000 cubic yards of earthwork by the hydraulic method in Sub-District No. 1 of Drainage Union District No. 1, Ill. Further information on application.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here until 12 m., Nov. 27, 1922, and then opened, for dredging in Key West Harbor, Fla. Further information on application.

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these advertisers through *Engineering News-Record's* large NATIONAL circulation, reaching almost every worthwhile contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

PROPOSALS FOR NINE STEEL BARGES.—Office Mississippi River Commission, Third District, P. O. Box 404, Vicksburg, Miss. Sealed proposals will be received here until 11 a.m. December 14, 1922, and then opened, for furnishing nine steel barges. Further information on application.

PROPOSAL FOR STEEL BARGE—U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 a.m., Dec. 1st, 1922, and then opened, for one 80 ft. x 26 ft. x 5 ft. steel barge. Further information on application.

U. S. ENGINEER OFFICE, HUNTINGTON, W. VA., October 20, 1922. Sealed proposals will be received here until 11 a.m. (Eastern time), November 20, 1922, and then opened, for furnishing and delivering horses and props for Ohio River Dam No. 32. Further information on application.

PROPOSALS FOR LEVEE WORK.—Office of the Secretary, Mississippi River Commission, 1311 International Life Building, St. Louis, Mo.—Sealed proposals will be received here until 11 a.m., Nov. 23, 1922, for constructing about 380,000 cubic yards of earthwork in the Kings Lake Drainage District, Mo. Further information on application.

U. S. ENGINEER OFFICE, Charleston, S. C.—Sealed proposals will be received here until noon, November 25, 1922, and then opened, for dredging western channel and Sampit River, Winyah Bay, S. C. Further information on application.

UNITED STATES ENGINEER OFFICE, DETRIOT, MICH.—Sealed proposals will be received here until 11 a.m., December 15, 1922, and then opened, for dredging and rock excavation in Livingstone Channel, Detroit River, Mich. Further information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern time) November 20, 1922, and then opened, for furnishing and delivering one steel derrick boat hull. Further information on application.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals for constructing and delivering one steel dipper dredge hull afloat at Pittsburgh, Pa., will be received at this office until 12 noon (Eastern time), December 1, 1922, and then opened. Information on application.

U. S. ENGINEER OFFICE, PITTSBURGH, PA. Sealed proposals will be received here until 12 noon (Eastern time), November 25, 1922, and then opened, for furnishing and delivering three steel deck barges. Further information on application.

U. S. ENGINEER OFFICE, MILWAUKEE, WIS., Oct. 25, 1922. Sealed proposals will be received here until 2 p.m., Nov. 27, 1922, and then opened, for the construction of one dipper dredge hull and house. Further information on application.

PROPOSALS FOR BOILERS.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing boilers for hydraulic grader No. H.G. 2-1-1-2-23. Further information on application.

PROPOSALS FOR STEEL BARGES.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn. Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing six steel barges. Further information on application.

PROPOSALS FOR MACHINERY FOR HYDRAULIC GRADER.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a.m., Dec. 2, 1922, and then opened, for furnishing turbines, pumps, feed-water heater, boiler-feed pumps, and electric-light plant. Further information on application.

U. E. ENGINEER OFFICE, ROCK ISLAND, ILL., Nov. 10, 1922. Sealed proposals will be received here until 10 a.m., December 11, 1922, and then opened, for construction and delivery of ten (10) 100 ft. x 30 ft. x 6 ft. steel barges, complete as specified. Further information on application.

SEALED PROPASALS will be received and publicly opened by the Director of the U. S. Veterans Bureau in the office of the Quartermaster General, 2306 Munitions Building, Washington, D. C., at 11 a.m., December 12, 1922, for the construction of a Neuro-Psychiatric Hospital at Knoxville, Iowa for the Veterans Bureau. Work will include the construction of fifteen buildings of reinforced concrete and brick, complete with water, lighting, heating, and sewer systems, roads and walks. Plans and specifications may be obtained after November 14, 1922 from the Quartermaster General, 2312 Munition Building, Washington, D. C., upon deposit of $100. One set of plans and specifications will be on exhibition at each of the following stations: Constructing Quartermasters at 30 Whitehall Street, New York City and Scott Field, Belleville, Illinois; also Quartermaster Supply Officers at 1819 West Pershing Road, Chicago, Illinois and Second and Arsenal Streets, St. Louis, Mo.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., Nov. 10, 1922. Sealed proposals will be received at this office until 3 p.m., Dec. 4, 1922, and then opened for an extension to the building and driveway, and remodeling, at the United States Court House and Post Office, at Altoona, Pa., in accordance with the specification and drawings mentioned therein, copies of which may be had at this Office or at the office of the Custodian in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.